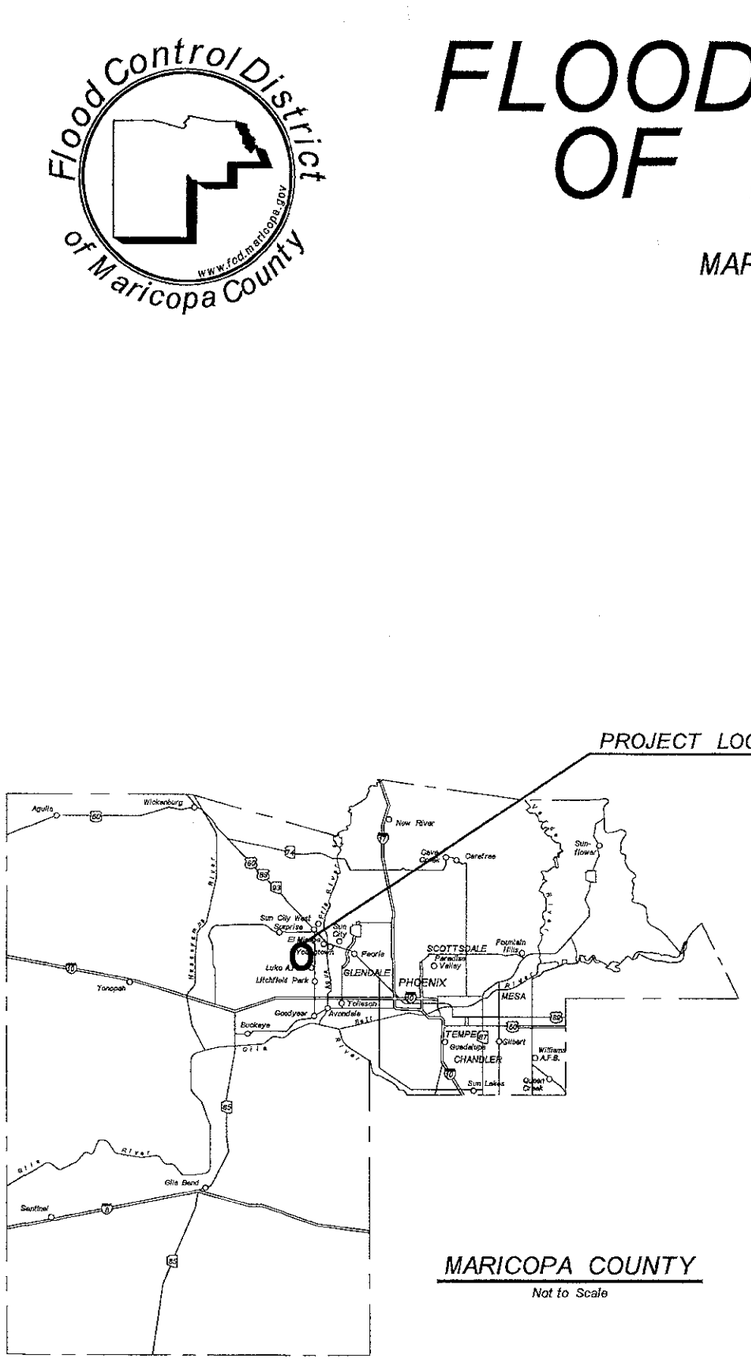
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

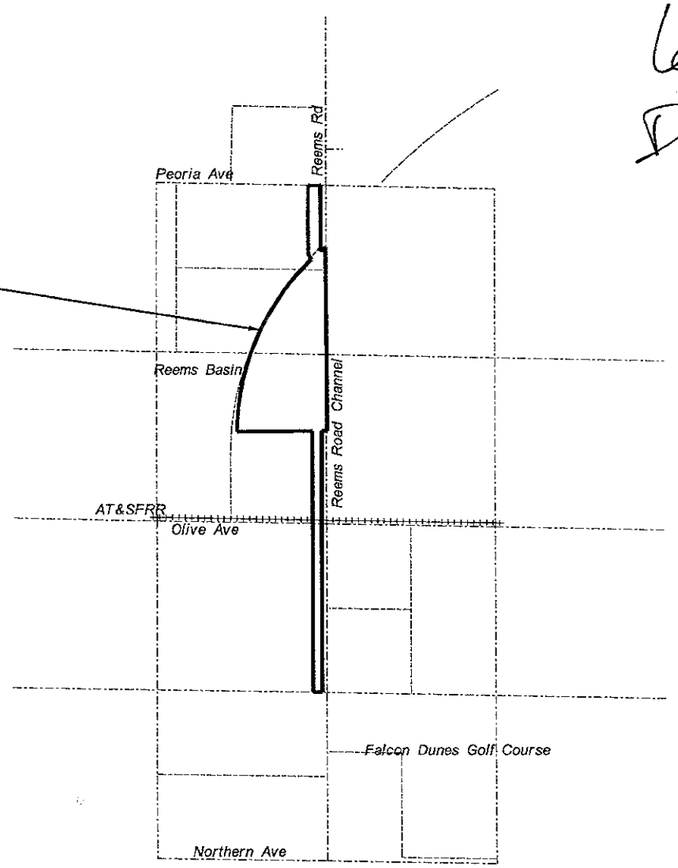
IN COOPERATION WITH
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION

PLANS FOR THE CONSTRUCTION OF
REEMS ROAD CHANNEL AND BASIN
FCD PROJECT CONTROL NO. 4701231
FCD CONTRACT NO.

60% DRAFT

PROJECT LOCATION





MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION — DATE

60% SUBMITTAL

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY:

PROJECT MANAGER — DATE

ISSUED FOR PUBLIC BIDDING BY:

CHIEF ENGINEER AND GENERAL MANAGER — DATE

THE FLOOD CONTROL DISTRICT

ANDY KUNASEK - CHAIRMAN

DISTRICT 1	FULTON BROCK
DISTRICT 2	DON STAPLEY
DISTRICT 3	ANDY KUNASEK
DISTRICT 4	MAX WILSON
DISTRICT 5	MARY ROSE WILCOX

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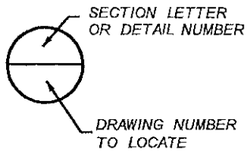
GENERAL NOTES

1. ALL CONSTRUCTION TO BE PERFORMED ACCORDING TO APPLICABLE MAG STANDARD DETAILS AND MAG SPECIFICATIONS, DATED 1998 AND REVISIONS THROUGH 2004
2. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL HORIZONTAL AND VERTICAL CONTROLS ARE APPROXIMATE AND TO THE BEST AVAILABLE INFORMATION.
3. EXISTING UTILITIES AND OTHER FACILITIES HAVE BEEN PLACED ON THE PLANS FROM FIELD SURVEYS, EXISTING MAPS AND OTHER CURRENT PLANS WITHIN THE AREA OF THIS PROJECT. THE CONTRACTOR WILL DETERMINE THE EXACT LOCATION AND/OR ELEVATION OF EXISTING UTILITIES WHICH PERTAIN TO AND AFFECT THE CONSTRUCTION OF THIS PROJECT.
4. TWO (2) WORKING DAYS PRIOR TO EXCAVATING, THE CONTRACTOR SHALL CALL FOR BLUE STAKE AT THE BLUE STAKE CENTER (PHONE: 1-800-STAKEIT)
5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION
6. THE FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGE TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION
7. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE FLOOD CONTROL DISTRICT AND/OR THE ENGINEER AND ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE
8. THE ENGINEER WILL DETERMINE THE NUMBER AND LOCATION OF THE REQUIRED COMPACTION TESTS FOR STRUCTURAL BACKFILL
9. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH MAG SPECIFICATION 401, PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (1988 EDITION) INCLUDING REVISION 3 DATED SEPTEMBER 3, 1993)
10. CONTRACTOR SHALL REPLACE PAVEMENT TO THE EXISTING GRADES SHOWN ON THE PLANS
11. EXACT POINT OF MATCHING TERMINATION AND OVERLAY WILL BE DETERMINED IN THE FIELD BY THE ENGINEER
12. NO JOB WILL BE CONSIDERED COMPLETED UNTIL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS
13. PRIOR TO FINAL APPROVAL AND ACCEPTANCE OF THE WORK, THE CONTRACTOR WILL BE REQUIRED TO CLEAN ADJACENT (OFF-PROJECT) ROADWAYS USED DURING THE COURSE OF CONSTRUCTION
14. ALL COMPACTION AND BACKFILL WITHIN COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE SPECIAL PROVISIONS FOR CONSTRUCTION OF STREET IMPROVEMENTS AND INSTALLATION OF UNDERGROUND UTILITIES. BACKFILL UNDER ANY EXISTING OR PROPOSED PAVEMENT, CURB, GUTTER OR WITHIN TWO FEET (2') OR LESS FROM THE EDGE OF PAVEMENT SHALL CONSIST OF AGGREGATE BASE COURSE (ABC) MATERIAL.



DESIGN DISCHARGES

Design Q = 2,179 CFS STA 75+00 To STA 87+00
Design Q = 639 CFS STA 50+00 To STA 75+00
Design Q = 818 CFS STA 7+00 To STA 50+00

PROJECT BENCHMARKS

FD BC IN HH OLIVE AVENUE AND REEMS ROAD
ELEV = 1126.15

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

STRUCTURAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO MAG STANDARDS DETAILS, SPECIFICATIONS, DATED 1998, INCLUDING ALL REVISIONS THRU 2004
2. DESIGN IS IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION 1, 17TH EDITION, 2002.
3. REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A615 GRADE 60
4. STRESSES - fs = 24,000 PSI - GRADE 60 REINFORCING STEEL.
5. ALL REINFORCING STEEL PLACEMENT DIMENSIONS SHALL BE TO THE CENTER OF BARS UNLESS OTHERWISE NOTED.
6. ALL REINFORCING STEEL SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE NOTED
7. STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATION A36.
8. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, REVISION 1996
9. DIMENSIONS SHALL NOT BE SCALED FROM DRAWING
10. CHAMFER ALL EXPOSED CORNERS 3/4" UNLESS OTHERWISE NOTED
11. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3,000 PSI MAG, UNLESS OTHERWISE NOTED

UTILITY NOTIFICATION

COMPANY	CONTACT NAME	PHONE NUMBER
APS	BOBBY GARZA	(602) 371-7989
BURLINGTON NORTHERN RAILROAD	COLLEEN DEINES	(909) 386-4472
COX COMMUNICATIONS	CARL MCKAY	(623) 328-3528
FALCON DUNES GOLF CLUB	CHRIS BOWLES	(623) 535-8355
LUKE AIR FORCE BASE	ZANE HOLT	(623) 856-7634
MARICOPA WATER DISTRICT	GLEN VORTHERMS	(623) 546-8266
QWEST COMMUNICATIONS	MATT PHILLIPS	(602) 630-1393
SOUTHWEST GAS	VIVIAN HUNSAKER	(602) 484-5277

INDEX OF SHEETS

ABBREVIATIONS

CST	CONSTRUCTION
Dbl	DOUBLE
DESC	DESCRIPTION
EQ	EQUAL
FOC	FIBER OPTIC CABLE
G	GUTTER ELEVATION
OP	OVERHEAD ELECTRIC
P	PAVEMENT ELEVATION
PG	PAGE
P/L	PROPERTY LINE
PRV	PRIVATE
SPG	SPACING
STR	STRUCTURE
UGT	UNDERGROUND TELE CABLE
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB ELEVATION
TW	TOP OF WALL ELEVATION
TG	TOP OF GRATE ELEVATION

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

		BY	DATE
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING	DESIGNED	JRR	06/05
	DRAWN	FRC	06/05
	CHECKED	MAL	06/05

DRAWING NO.		SHEET OF
G2	GENERAL NOTES INDEX OF SHEETS	2 40

LEGEND SHEET

SYMBOLS

- Brass Cap In Hand Hole
- Benchmark
- Brass Cap
- Bush
- Cactus
- Catch Basin
- Chiseled Square
- Miscellaneous Control Point
- Check Shot
- Electric Manhole
- Electric Meter
- Elevation Reference Mark
- Fire Hydrant
- GDAC
- Gas Meter
- Gas Valve
- Iron Pipe
- Irrigation Manhole
- Light Pole
- Palm Tree
- Power Pole
- Rebar
- Rebar With Cap
- Section Corner
- Storm Drain Manhole
- Proposed Slope Indicator
- Existing Slope Indicator
- Sanitary Sewer Manhole
- Telephone Manhole
- Telephone Pole
- Tree
- Transmission Tower
- Well

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

SYMBOLS

- Flow Direction
- Proposed Concrete Sidewalk or O&M Road
- Soil Cement
- Proposed Asphalt Pavement
- Asphalt Pavement Removal
- Grade Break
- Sawcut & Match
- Connector Pipe Profile No.
- PIP — Protect in Place
- Water Manhole
- Water Meter
- Water Valve

LINESTYLES

- Centerline
- Cut Line
- Fiber Optic Line
- Fill Line
- Forest/Indian Reservation Line
- High Pressure Gas Line
- Irrigation Line
- Proposed Chain Link Fence Line
- Proposed Fence Line
- Proposed Gas Line
- Proposed Overhead Power Line
- Proposed Overhead Telephone Line
- Proposed Retaining Wall
- Proposed ROW
- Proposed Sanitary Sewer Line
- Proposed Underground Power Line
- Proposed Underground Telephone Line
- Proposed Underground Cable Television Line
- Proposed Water Line
- Proposed Wood Fence Line
- Proposed Storm Drain (width varies 72" pipe shown)
- Section Line
- Temporary Construction Easement
- Tree Line
- Wash Flow Line
- Existing Water Surface Elevation (Profile Views Only)
- Proposed Water Surface Elevation (Profile Views Only)
- Existing Block Wall
- Existing Chain Link Fence Line
- Existing Fence Line
- Existing Gas Line And Size
- Existing Left Guardrail
- Existing Right Guardrail
- Existing Irrigation Line
- Existing Overhead Power Line
- Existing Overhead Telephone Line

LINESTYLES

- Existing Retaining Wall
- Existing Edge Of Paved Road
- Existing ROW
- Existing Sanitary Sewer Line
- Existing Storm Drain Pipe And Size
- Existing Underground Power Line
- Existing Underground Telephone Line
- Existing Underground Cable Television Line
- Existing Water Line And Size
- Existing Wood Fence Line

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

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DRAWN	FRC	06/05
CHECKED	MAL	06/05

DRAWING NO. G3

LEGEND SHEET
SYMBOLS AND LINESTYLES

SHEET OF 3 40

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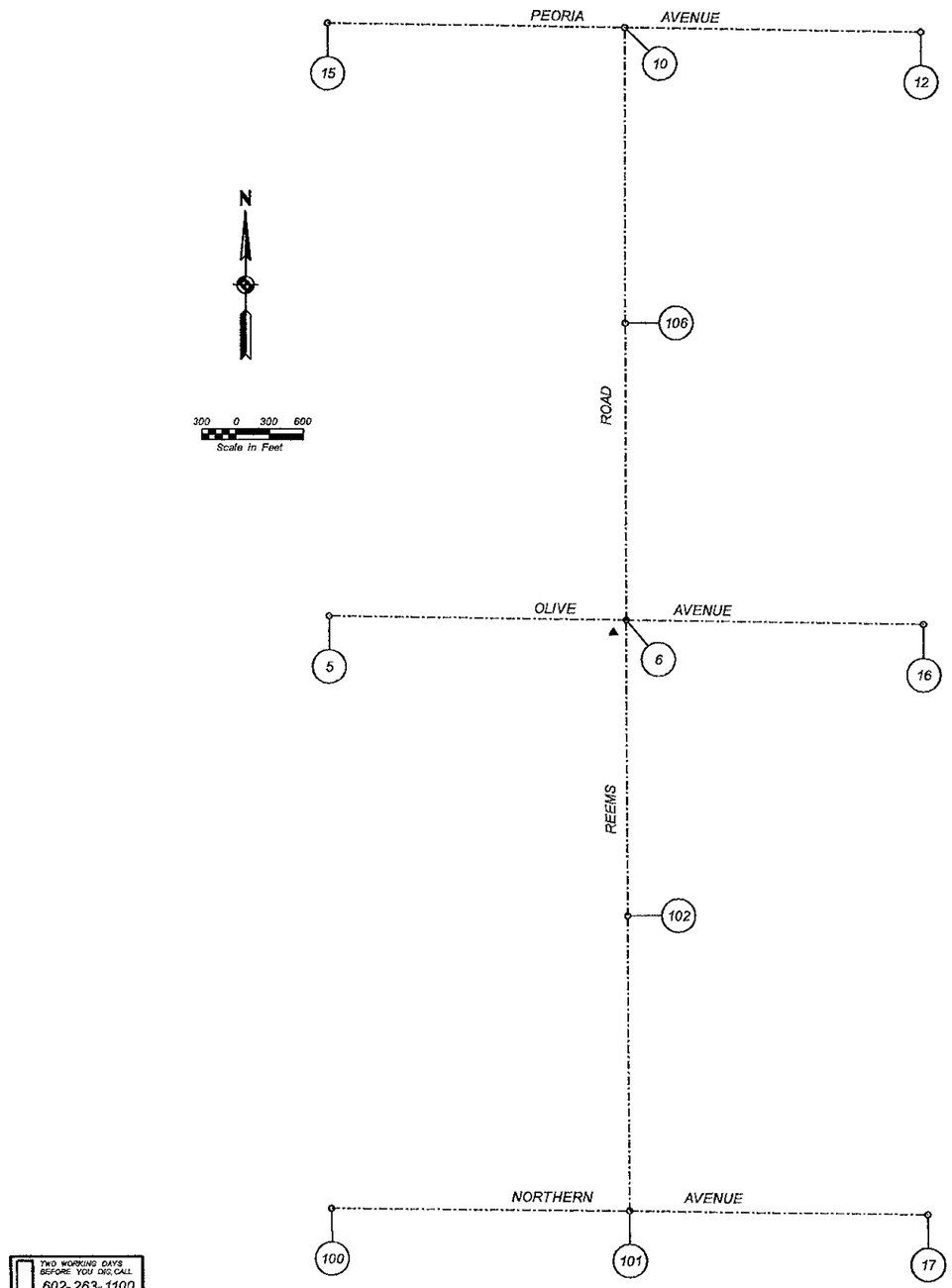

NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	928,594.4431	552,079.255	1116.13	ACF Northern/Alsup
101	928561.2808	554,719.1557	1104.60	BCH Reems/Northern
102	931,191.1991	554,722.8032	1113.72	BCH Reems
106	936,458.7388	554,723.4042	1135.00	BCH Reems
5	933,867.4815	552,088.1912	1136.76	ACF Olive
▲ 6	933,823.3808	554,723.5052	1126.15	BCH Olive/Reems
10	939,094.1699	554,722.9902	1145.13	Peoria/Reems
12	939,042.1081	557,358.3472	1144.53	ACF Peoria
15	939,143.9484	552,083.1255	1156.86	Fnd AC-1.10
16	933,772.5091	557,363.0868	1118.71	ACH Olive
17	928,516.1509	557,361.2716	1100.13	BCH Northern/151 Align

▲ Project Benchmark

TWO WORKING DAYS BEFORE YOU DIG CALL
602-263-1100
BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
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1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

DRAWING NO. G4

HORIZONTAL & VERTICAL CONTROL

SHEET OF 4 40

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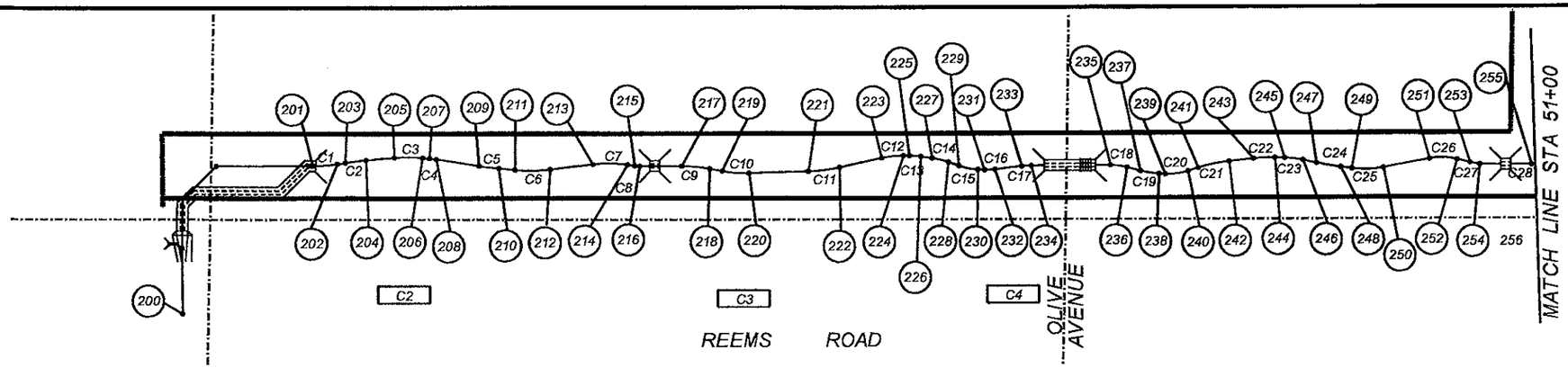

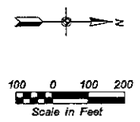

C# Drawing Sheet Number

CHANNEL GEOMETRY DATA				
PT #	DESC	STATION	NORTHING	EASTING
200	POB	5+00.00	931,103.46	555,014.14
201	PC	12+96.22	931,504.74	554,557.68
202	PT	13+72.44	931,580.65	554,551.72
203	PC	13+96.26	931,604.19	554,548.05
204	PT	14+62.22	931,669.65	554,540.05
205	PC	15+48.59	931,755.68	554,532.40
206	PT	16+35.98	931,842.96	554,532.29
207	PC	16+57.04	931,863.94	554,534.10
208	PT	16+78.46	931,885.20	554,536.70
209	PC	18+12.20	932,017.28	554,557.68
210	PT	18+73.24	932,077.82	554,565.41
211	PC	19+23.20	932,127.55	554,570.23
212	PT	20+31.75	932,235.88	554,568.92
213	PC	21+63.72	932,366.89	554,553.04
214	PT	22+70.39	932,473.24	554,554.39
215	PC	22+92.04	932,494.65	554,557.54
216	PT	23+07.69	932,510.25	554,558.60
217	PC	24+37.06	932,639.62	554,558.53
218	PT	25+23.41	932,725.48	554,566.63
219	PC	25+63.19	932,764.61	554,573.76
220	PT	26+46.41	932,847.45	554,580.10
221	PC	28+29.94	933,030.90	554,575.01
222	PT	29+26.79	933,126.85	554,563.00
223	PC	30+59.54	933,256.36	554,533.85
224	PT	31+27.51	933,323.79	554,526.53
225	PC	31+45.80	933,342.08	554,526.63
226	PT	31+80.31	933,376.46	554,529.18
227	PC	32+15.74	933,411.53	554,534.24

CHANNEL GEOMETRY DATA				
PT #	DESC	STATION	NORTHING	EASTING
228	PT	32+67.04	933,461.21	554,546.70
229	PC	33+01.03	933,493.16	554,558.31
230	PT	33+60.94	933,551.67	554,570.09
231	PC	33+81.09	933,571.79	554,571.07
232	PT	34+13.43	933,604.08	554,570.04
233	PC	34+97.44	933,687.56	554,560.58
234	PT	35+27.97	933,718.02	554,558.69
235	PC	37+73.02	933,963.06	554,558.16
236	PT	38+23.64	934,013.15	554,564.49
237	PC	38+67.07	934,055.21	554,575.32
238	PT	39+26.05	934,113.40	554,584.34
239	PC	39+44.57	934,131.89	554,585.37
240	PT	40+16.85	934,203.21	554,576.39
241	PC	40+49.96	934,234.78	554,566.42
242	PT	41+47.82	934,330.39	554,546.24
243	PC	42+22.94	934,405.05	554,537.98
244	PT	42+89.83	934,471.82	554,535.09
245	PC	43+19.61	934,501.60	554,535.80
246	PT	43+76.41	934,557.91	554,542.49
247	PC	44+19.65	934,600.18	554,551.63
248	PT	44+94.91	934,674.27	554,564.75
249	PC	45+28.77	934,707.81	554,569.40
250	PT	46+26.97	934,805.54	554,566.86
251	PC	47+71.20	934,947.19	554,539.67
252	PT	48+57.43	935,032.72	554,541.89
253	PC	48+98.15	935,072.26	554,551.63
254	PT	49+29.09	935,102.75	554,556.68
255	PC	50+88.61	935,262.24	554,558.01

CHANNEL GEOMETRY CURVE DATA				
CV #	LENGTH	DELTA ANGLE	RADIUS	TANGENT
C1	76.22	8°44'05"	500.00	38.19
C2	65.96	3°46'45"	1000.00	32.99
C3	87.39	10°00'50"	500.00	43.80
C4	21.42	4°05'27"	300.00	10.71
C5	61.04	3°29'50"	1000.00	30.53
C6	108.55	12°26'20"	500.00	54.49
C7	106.67	15°16'44"	400.00	53.65
C8	15.64	8°58'06"	100.00	7.84
C9	86.35	9°53'41"	500.00	43.28
C10	83.23	11°55'17"	400.00	41.76
C11	96.85	11°05'53"	500.00	48.58
C12	67.97	12°58'55"	300.00	34.13
C13	34.50	7°54'28"	250.00	17.28
C14	51.31	11°45'31"	250.00	25.74
C15	59.91	17°09'47"	200.00	30.18
C16	32.34	9°15'51"	200.00	16.20
C17	30.53	5°49'52"	300.00	15.28
C18	50.63	14°30'12"	200.00	25.45
C19	58.98	11°15'51"	300.00	29.58
C20	72.28	20°42'19"	200.00	36.54
C21	97.86	11°12'52"	500.00	49.09
C22	66.88	7°39'52"	500.00	33.49
C23	56.80	10°50'50"	300.00	28.48
C24	75.26	4°18'44"	1000.00	37.65
C25	98.20	18°45'15"	300.00	49.54
C26	86.23	24°42'11"	200.00	43.80
C27	30.94	8°51'45"	200.00	15.50
C28	77.32	8°51'38"	500.00	38.74

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

DRAWING NO. G5

CST @ GEOMETRIC LAYOUT STA 5+00 TO STA 51+00

SHEET OF 5 40

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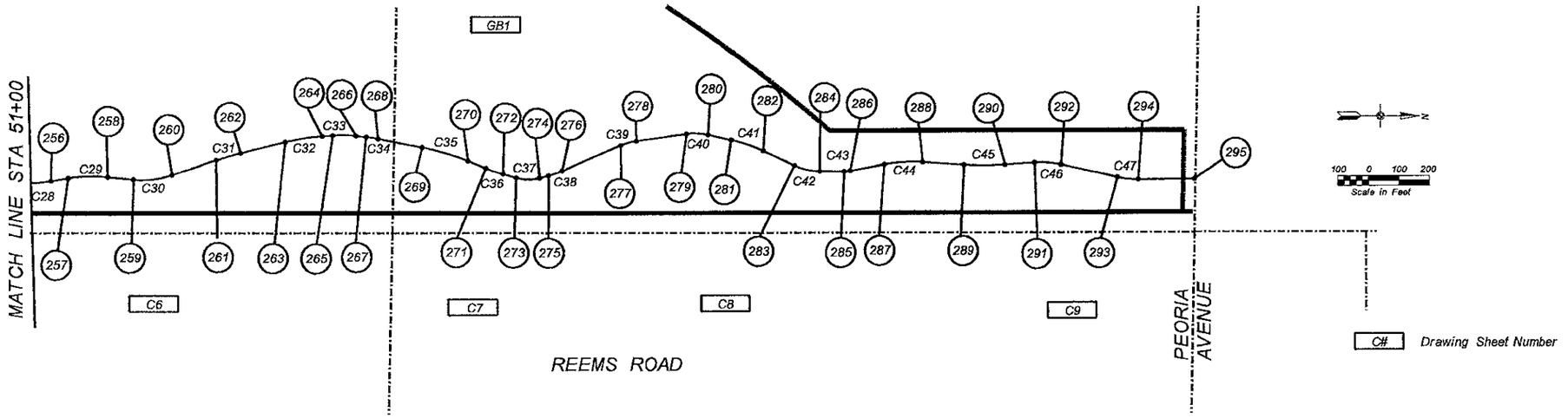


CHANNEL GEOMETRY DATA				
PT #	DESC	STATION	NORTHING	EASTING
256	PT	51+65.93	935,339.22	554,551.58
257	PC	52+24.21	935,396.74	554,542.25
258	PT	53+54.34	935,526.45	554,538.27
259	PC	54+38.58	935,610.27	554,546.64
260	PT	55+66.28	935,736.20	554,532.31
261	PC	57+18.37	935,880.27	554,483.58
262	PT	53+03.00	935,961.49	554,459.89
263	PC	59+52.72	936106.86	554,424.08
264	PT	60+75.67	936,228.12	554,404.56
265	PC	61+10.72	936,263.06	554,401.85
266	PT	61+87.40	936,339.61	554,403.25
267	PC	62+21.10	936,373.09	554,407.08
268	PT	62+60.71	936,412.22	554,413.15
269	PC	64+07.02	936,555.81	554,441.26
270	PT	65+63.00	936,705.01	554,485.91
271	PC	66+26.74	936,764.00	554,510.05
272	PT	66+86.11	936,820.15	554,529.21
273	PC	67+30.53	936,862.97	554,541.05
274	PT	68+08.28	936,939.84	554,541.85
275	PC	68+38.66	936,969.29	554,534.37

CHANNEL GEOMETRY DATA				
PT #	DESC	STATION	NORTHING	EASTING
276	PT	68+86.06	937,014.12	554,519.13
277	PC	70+96.52	937,207.41	554,435.88
278	PT	71+50.01	937,258.77	554,421.50
279	PC	73+16.19	937,423.34	554,398.44
280	PT	73+87.31	937,494.04	554,401.16
281	PC	74+66.99	937,571.86	554,418.27
282	PT	75+78.45	937,677.16	554,454.09
283	PC	76+91.27	937,779.27	554,502.07
284	PT	77+76.97	937,862.17	554,521.05
285	PC	78+57.21	937,942.41	554,521.92
286	PT	78+76.90	937,961.99	554,520.20
287	PC	79+91.05	938,074.17	554,499.08
288	PT	81+17.18	938,199.74	554,491.55
289	PC	82+53.63	938,335.89	554,500.57
290	PT	83+88.70	938,470.85	554,500.39
291	PC	84+87.07	938,568.99	554,493.63
292	PT	85+74.38	938,655.74	554,500.29
293	PC	87+64.48	938,841.17	554,542.18
294	PT	88+33.66	938,909.80	554,549.54
295	POE	90+18.01	939,094.14	554,547.99

CHANNEL GEOMETRY CURVE DATA				
CV #	LENGTH	DELTA ANGLE	RADIUS	TANGENT
C29	130.13	14°54'43"	500.00	65.44
C30	127.70	24°23'18"	300.00	64.83
C31	84.63	4°50'56"	1000.00	42.34
C32	122.95	9°23'34"	750.00	61.61
C33	76.69	10°59'05"	400.00	38.46
C34	39.61	4°32'18"	500.00	19.81
C35	155.98	11°10'18"	800.00	78.24
C36	59.36	6°48'10"	500.00	29.72
C37	77.74	29°41'47"	150.00	39.77
C38	47.40	9°03'09"	300.00	23.75
C39	53.50	15°19'33"	200.00	26.91
C40	71.12	20°22'29"	200.00	35.94
C41	111.46	12°46'19"	500.00	55.96
C42	85.70	24°33'02"	200.00	43.52
C43	19.69	11°16'47"	100.00	9.88
C44	126.13	14°27'14"	500.00	63.40
C45	135.07	7°44'19"	1000.00	67.64
C46	87.31	16°40'28"	300.00	43.96
C47	69.17	13°12'39"	300.00	34.74

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

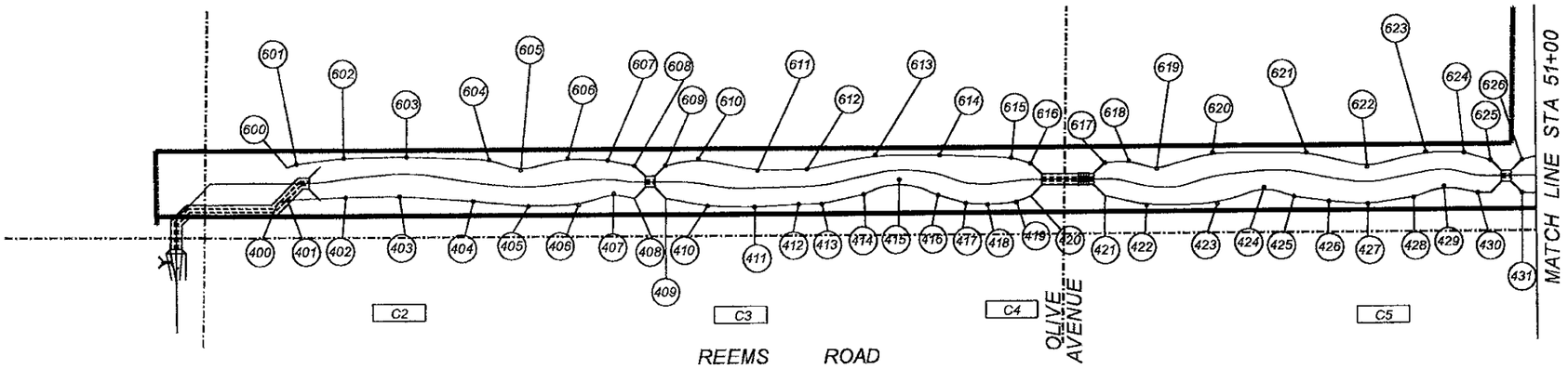
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

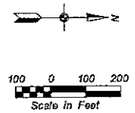
DRAWING NO. G6

CST ℄ GEOMETRIC LAYOUT STA 51+00 TO POE

SHEET OF 6 40

Sht06-Geometric3.dgn 06/23/2005 02:09:21 PM





C# Drawing Sheet Number

CHANNEL GEOMETRY DATA				
PT #	DESC	NORTHING	EASTING	RADIUS
600	POB	931,446.38	554,508.59	
601	PI	931,474.79	554,498.82	200.00
602	PI	931,619.65	554,481.03	1000.00
603	PI	931,810.31	554,478.23	2000.00
604	PI	932,062.04	554,487.98	250.00
605	PI	932,158.83	554,520.35	150.00
606	PI	932,303.69	554,485.10	400.00
607	PI	932,426.45	554,491.23	300.00
608	PI	932,508.65	554,508.36	0
609	PI	932,603.80	554,508.27	0
610	PI	932,704.73	554,487.98	300.00
611	PI	932,884.23	554,524.82	500.00
612	PI	933,034.83	554,521.57	500.00
613	PI	933,244.40	554,479.77	800.00
614	PI	933,441.96	554,481.03	3000.00
615	PI	933,663.62	554,489.79	200.00
616	PI	933,723.09	554,508.23	0
617	PI	933,949.06	554,508.30	0
618	PI	934,023.34	554,503.15	200.00
619	PI	934,108.94	554,528.07	100.00
620	PI	934,280.22	554,479.77	500.00
621	PI	934,567.88	554,481.21	500.00
622	PI	934,754.34	554,525.48	200.00
623	PI	934,935.37	554,481.66	500.00
624	PI	935,052.93	554,484.73	100.00
625	PI	935,133.73	554,508.19	0
626	PI	935,230.07	554,508.13	0

CHANNEL GEOMETRY DATA				
PT #	DESC	NORTHING	EASTING	RADIUS
400	POB	931416.64	554,615.98	1000.00
401	PI	931,446.90	554,608.17	0
402	PI	931,625.39	554,601.07	2000.00
403	PI	931,788.50	554,598.36	2000.00
404	PI	932,013.51	554,614.18	3000.00
405	PI	932,182.49	554,630.44	1000.00
406	PI	932,336.12	554,626.83	400.00
407	PI	932,444.56	554,593.39	150.00
408	PI	932,507.84	554,608.24	0
409	PI	932,604.08	554,608.24	0
410	PI	932,731.91	554,632.09	500.00
411	PI	932,875.65	554,636.42	1000.00
412	PI	933,009.20	554,628.55	500.00
413	PI	933,080.14	554,628.10	400.00
414	PI	933,208.91	554,599.63	350.00
415	PI	933,317.35	554,555.35	200.00
416	PI	933,436.18	554,602.79	500.00
417	PI	933,522.03	554,628.10	200.00
418	PI	933,588.00	554,633.07	400.00
419	PI	933,678.36	554,626.06	200.00
420	PI	933,723.03	554,608.03	0
421	PI	933,949.09	554,608.03	0
422	PI	934,077.24	554,638.05	500.00
423	PI	934,,294.30	554,636.42	500.00
424	PI	934,437.98	554,586.81	150.00
425	PI	934,529.70	554,614.37	200.00
426	PI	934,636.33	554,630.64	1000.00
427	PI	934,755.76	554,638.94	400.00
428	PI	934,897.04	554,619.79	350.00
429	PI	934,990.11	554,587.26	200.00
430	PI	935,094.91	554,607.71	200.00
431	PI	935,229.53	554,608.09	0

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

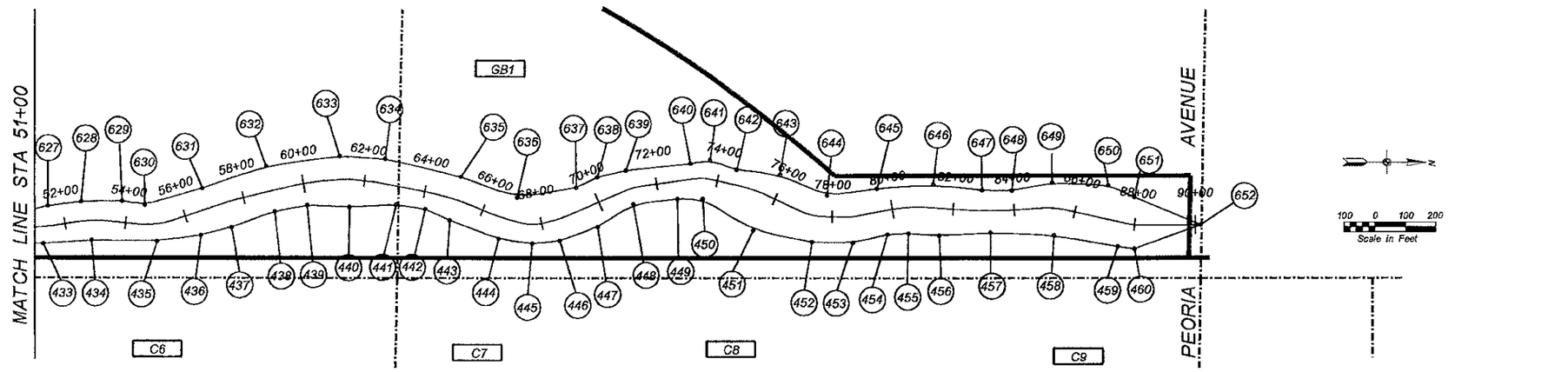
REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING		BY	DATE
	DESIGNED	JRR	06/05
	DRAWN	FRC	06/05
	CHECKED	MAL	06/05

DRAWING NO.	TOP OF BANK GEOMETRIC LAYOUT STA 5+00 TO STA 51+00	SHEET OF
G7		7 40

Sht07-Geometric4.dgn 06/23/2005 02:10:57 PM



REEMS ROAD

100 0 100 200
Scale in Feet

C# Drawing Sheet Number

CHANNEL GEOMETRY DATA				
PT #	DESC	NORTHING	EASTING	RADIUS
627	PI	935,316.31	554,487.98	
628	PI	935,425.74	554,473.54	500.00
629	PI	935,560.45	554,471.37	1000.00
630	PI	935,635.21	554,484.37	200.00
631	PI	935,824.10	554,429.47	200.00
632	PI	936,031.77	554,356.88	2000.00
633	PI	936,270.86	554,323.00	1000.00
634	PI	936,419.30	554,332.68	600.00
635	PI	936,668.50	554,391.19	600.00
636	PI	936,851.61	554,459.45	1000.00
637	PI	937,045.20	554,426.58	300.00
638	PI	937,114.00	554,392.64	200.00
639	PI	937,207.18	554,370.24	200.00
640	PI	937,418.28	554,348.28	700.00
641	PI	937,482.21	554,336.29	400.00
642	PI	937,571.05	554,367.35	150.00
643	PI	937,713.71	554,383.25	300.00
644	PI	937,868.65	554,452.23	500.00
645	PI	938,031.90	554,430.56	200.00
646	PI	938,216.81	554,416.47	1500.00
647	PI	938,376.81	554,435.25	1000.00
648	PI	938,474.32	554,436.70	500.00
649	PI	938,606.87	554,410.69	400.00
650	PI	938,790.70	554,419.00	500.00
651	PI	938,875.94	554,457.64	200.00
652	POE	939,094.14	554,547.99	

CHANNEL GEOMETRY DATA				
PT #	DESC	NORTHING	EASTING	RADIUS
433	PI	935,301.59	554,611.52	500.00
434	PI	935,460.61	554,600.08	1500.00
435	PI	935,675.91	554,603.47	1000.00
436	PI	935,819.59	554,582.69	500.00
437	PI	935,919.45	554,556.93	1000.00
438	PI	936,060.42	554,504.97	600.00
439	PI	936,165.69	554,484.64	300.00
440	PI	936,302.60	554,490.06	1000.00
441	PI	936,455.32	554,482.38	400.00
442	PI	936,550.65	554,496.84	200.00
443	PI	936,631.08	554,533.44	1000.00
444	PI	936,791.48	554,594.43	500.00
445	PI	936,901.28	554,609.80	200.00
446	PI	936,992.09	554,600.76	300.00
447	PI	937,115.89	554,555.12	500.00
448	PI	937,231.56	554,480.57	250.00
449	PI	937,375.70	554,463.85	200.00
450	PI	937,458.38	554,462.95	200.00
451	PI	937,626.01	554,566.42	500.00
452	PI	937,818.94	554,604.83	100.00
453	PI	937,953.59	554,607.54	500.00
454	PI	938,067.00	554,579.98	300.00
455	PI	938,135.23	554,576.81	300.00
456	PI	938,236.44	554,584.04	600.00
457	PI	938,403.61	554,574.10	1500.00
458	PI	938,612.36	554,583.14	1200.00
459	PI	938,821.11	554,619.74	1000.00
460	PI	938,875.78	554,627.42	0
461	POE	939,094.14	554,547.99	

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

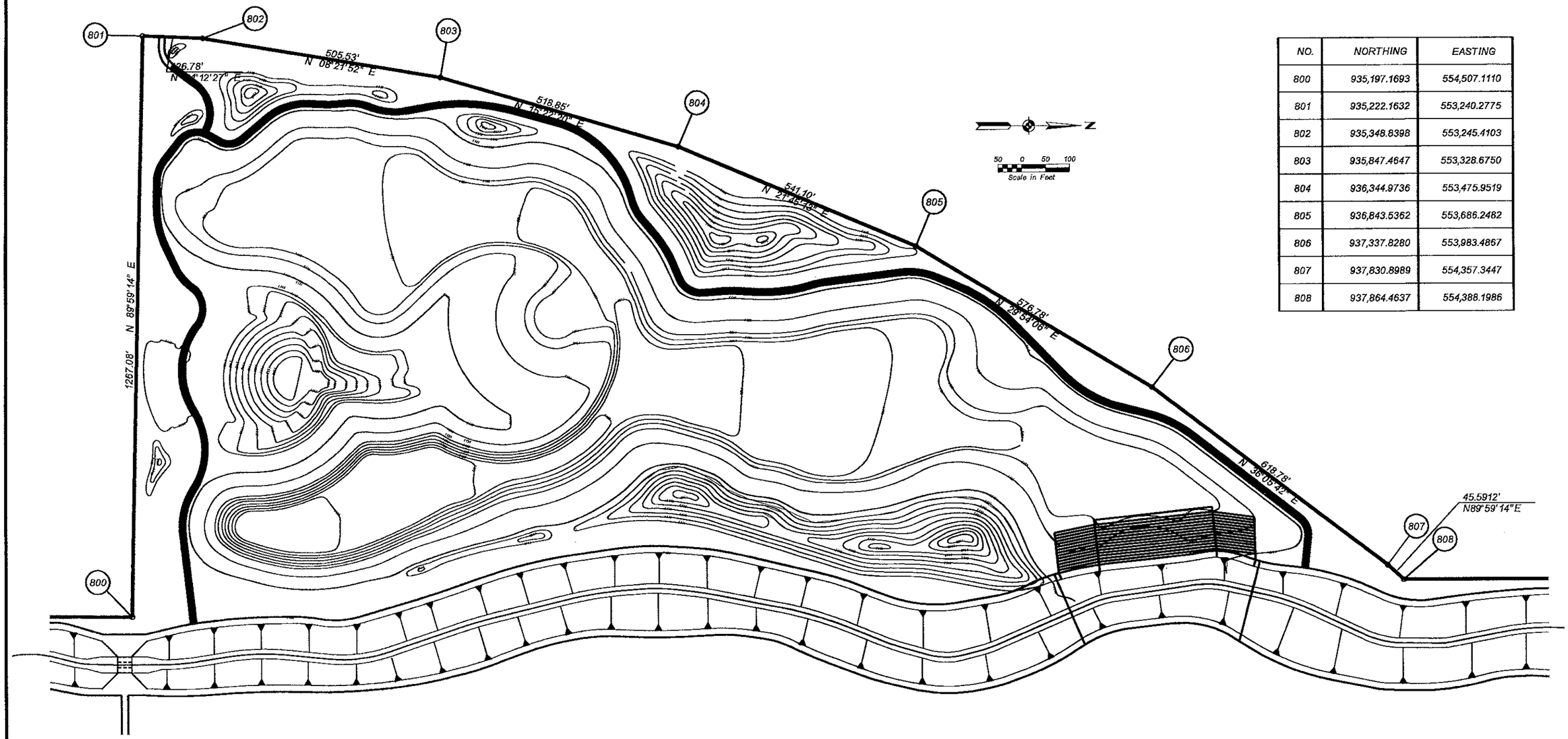
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

DRAWING NO. G8

TOP OF BANK GEOMETRIC LAYOUT STA 51+00 TO POE

SHEET OF 8 40

Sht08-Geometric5.dgn 06/23/2005 02:17:13 PM



NO.	NORTHING	EASTING
800	935,197.1693	554,507.1110
801	935,222.1632	553,240.2775
802	935,348.8398	553,245.4103
803	935,847.4647	553,328.6750
804	936,344.9736	553,475.9519
805	936,843.5362	553,686.2482
806	937,337.8280	553,983.4867
807	937,830.8989	554,357.3447
808	937,864.4637	554,388.1986

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

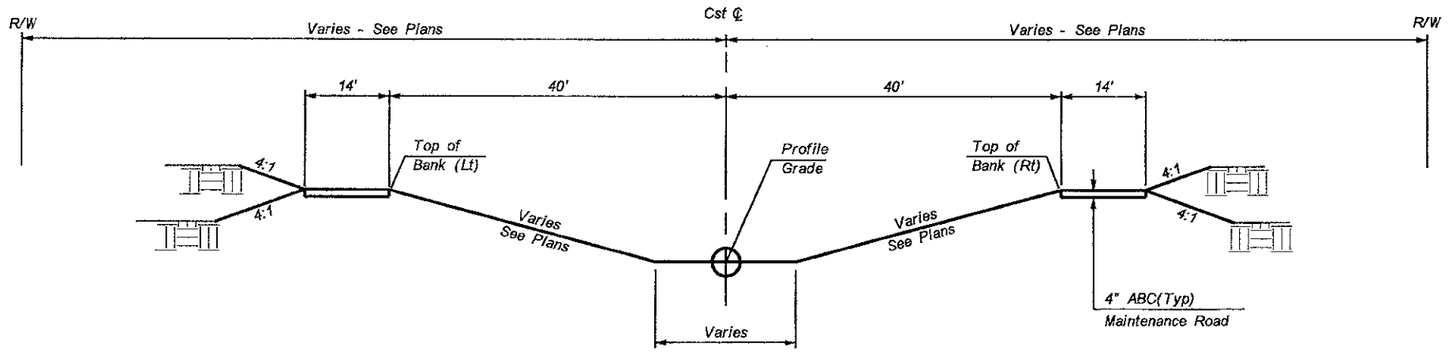
	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

DRAWING NO. G9

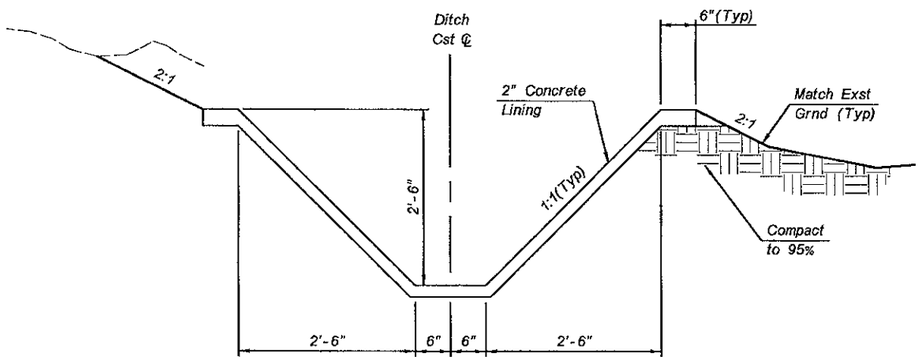
BASIN RIGHT-OF-WAY LAYOUT

SHEET OF 9 40

Sht09-Geometric6.dgn 06/23/2005 02:21:47 PM



TYPICAL SECTION
NTS



CONCRETE LINED DITCH
SECTION
NTS

TWO WORKING DAYS
BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

DRAWING NO.		SHEET OF
G10	TYPICAL SECTION	10 40

Sht10-TypSec.dgn 06/23/2005 02:25:03 PM

QUANTITY SUMMARY

REEMS ROAD CHANNEL AND BASIN

NO.	DESCRIPTION	UNIT	SHEET NUMBERS C1	C2	C3	C4	C5	C6	C7	C8	C9	GB1	IR1	IR2								QTY
211-1	Channel Fill	CY																				
215-1	Channel Excavation	CY																				
215-2	Basin Excavation	CY										393,900										393,900
310-1	4 " ABC Maintenance Road	SY		2,954	3,111	3,811	3,111	3,111	3,111	3,111	2,778											25,098
430-1	Native Seed Mix	SY		9,123	11,333	9,320	11,333	11,333	11,778	14,667	10,660											89,547
505-1	Box Culvert No. 1	LS	1																			1
505-2	Box Culvert No.2	LS			1																	1
505-3	Box Culvert No.3	LS				1																1
505-4	Box Culvert No.4	LS					1															1
505-5	Concrete Grade Control Structure	EA		2	2	4	2	4	4	2	2											22
505-6	Concrete Siphon Manhole	EA											2	2								4
505-7	Concrete Inlet Structure	EA	1									1										2
505-8	Concrete Outet Structure	EA						1														1
505-9	Concrete Weir	EA								1												1
505-10	Concrete Lined Ditch	LF											5	5								10
505-11	Concrete Channel Lining	SY	500																			500
618-1	18" Pipe	LF											10									10
618-2	24" Pipe	LF												33								33
618-3	30" Pipe	LF											138	139								277
618-4	60" Pipe	LF	33									200										233

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

ELLIOT OUTFALL CHANNEL
FCD PROJECT NO. 4420431

PRELIMINARY NOT FOR CONSTRUCTION

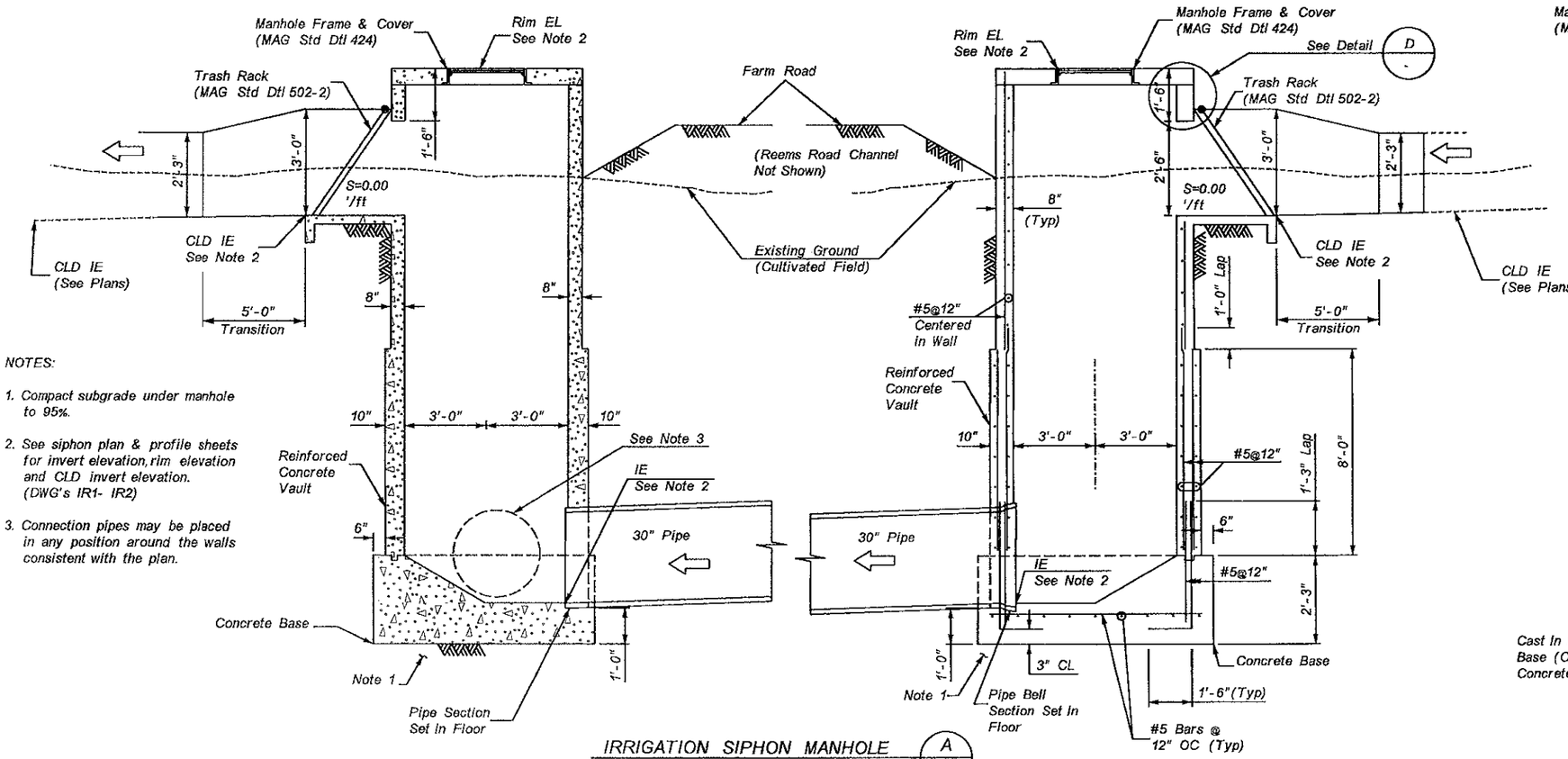
	BY	DATE
DESIGNED	JRR	01/05
DRAWN	FRC	01/05
CHECKED	MAL	01/05

DRAWING NO. QS01

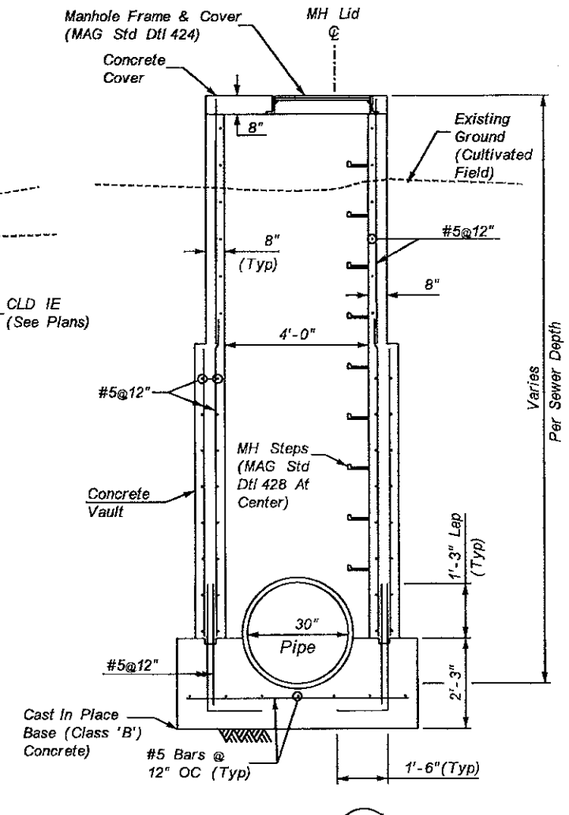
QUANTITY SUMMARY SHEET

SHEET OF 6 20

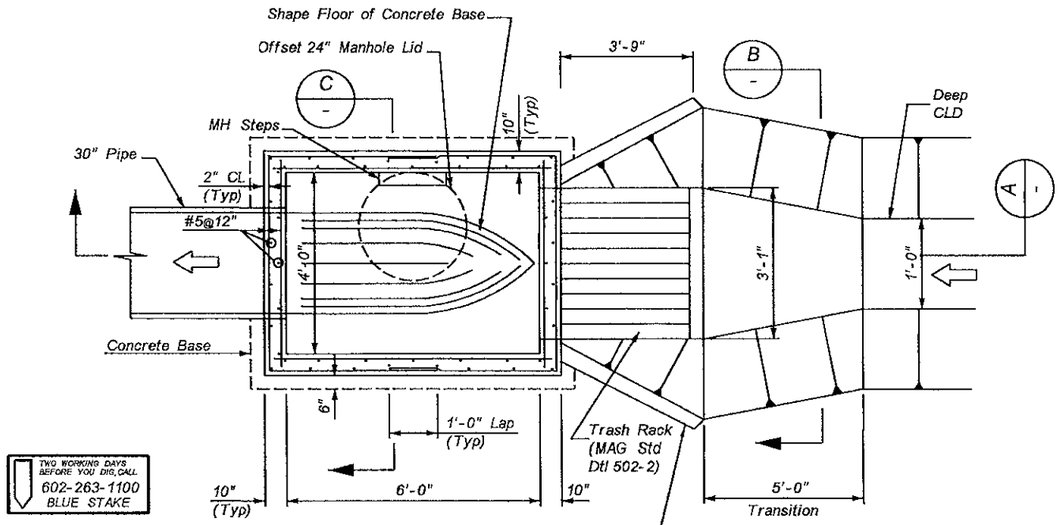
ShtXX-QS.dgn 06/28/2005 09:59:19 AM



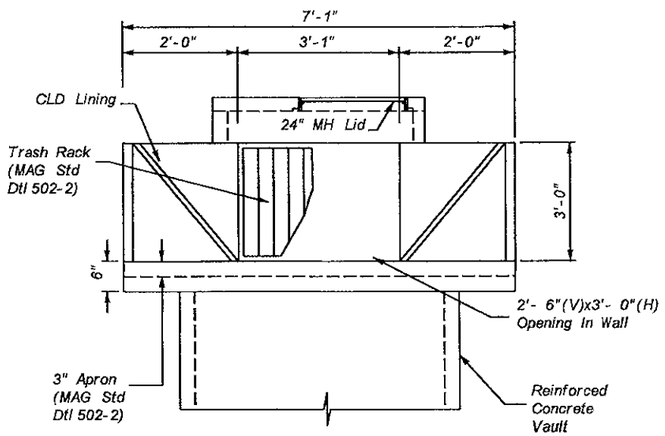
IRRIGATION SIPHON MANHOLE (A) NTS



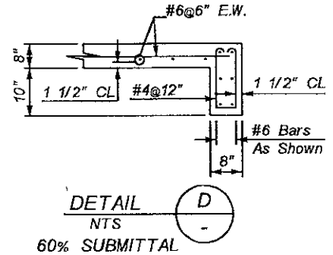
SECTION (C) NTS



PLAN NTS



ELEVATION (B) NTS



DETAIL (D) NTS

60% SUBMITTAL

DETAIL D1

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

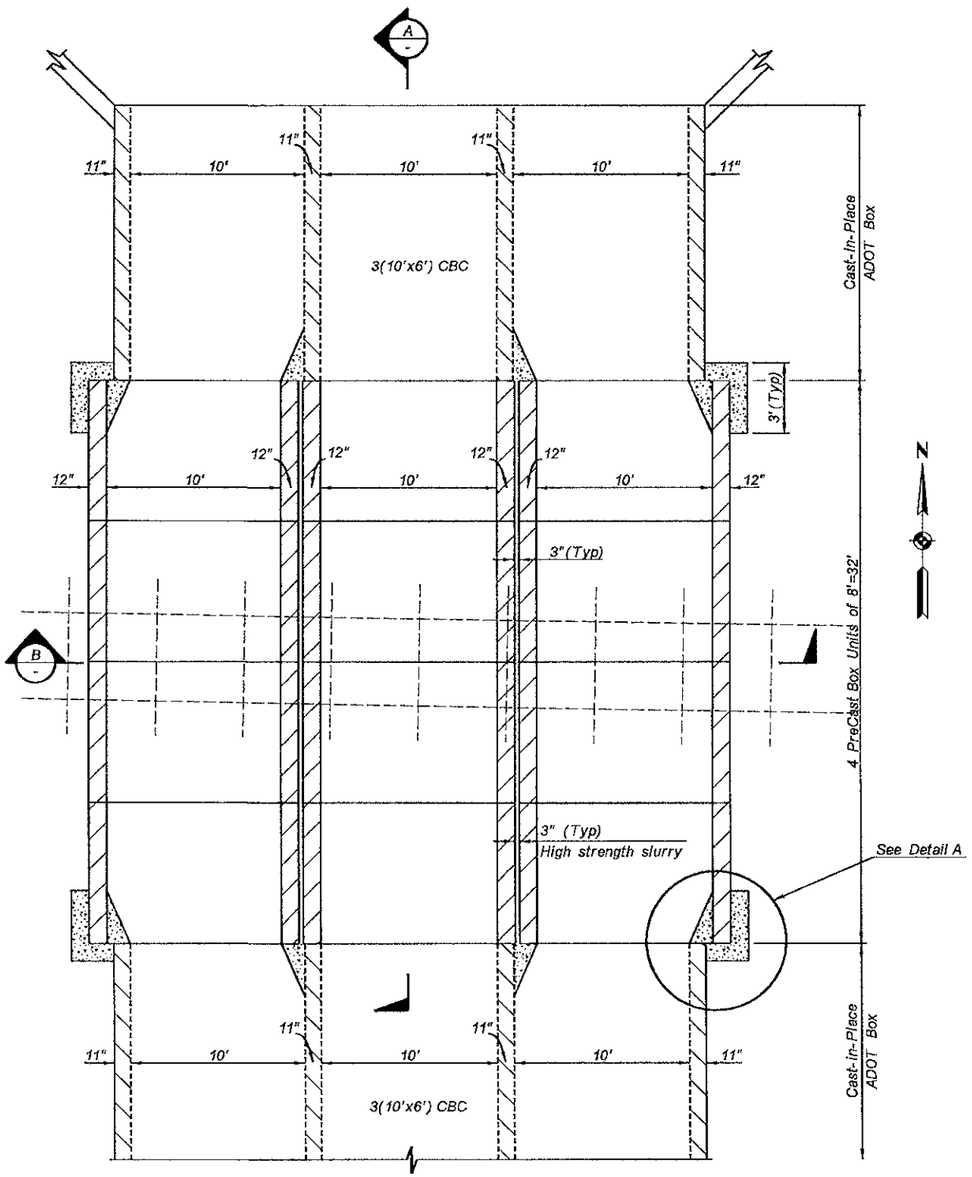
FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	KVH	06/05

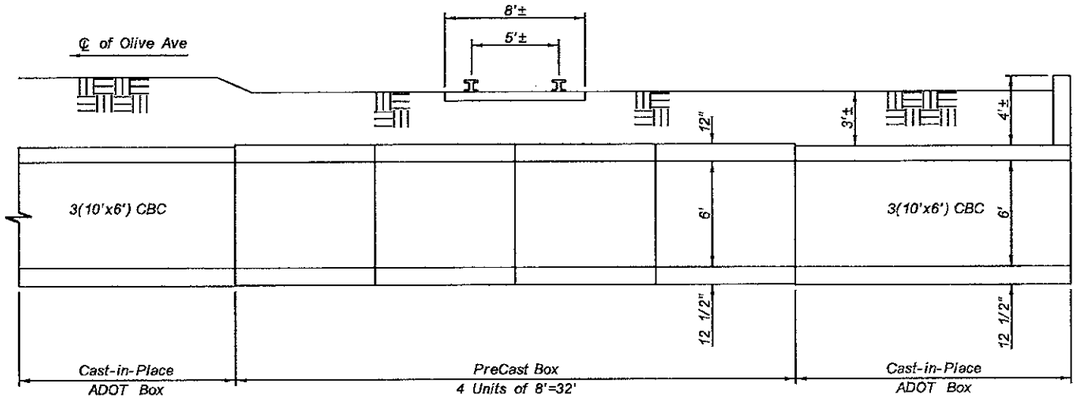
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

DRAWING NO.	SIPHON MANHOLE DETAIL	SHEET OF
D1		12 40

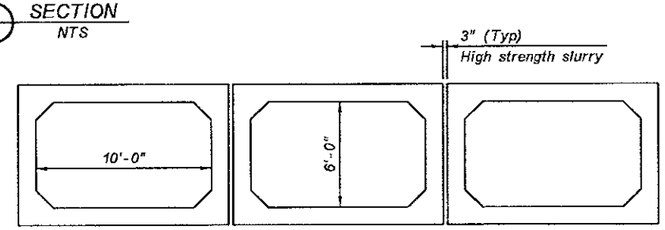
Sht12-Detail1.dgn 06/23/2005 02:28:12 PM

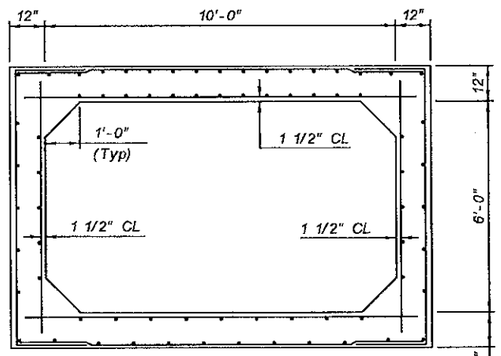


PLAN SHOWING
TRANSITION @ RR TRACK
NTS



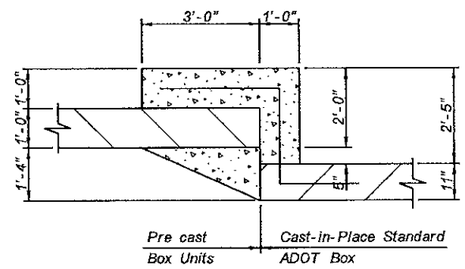
A SECTION
NTS





TYPICAL PRE-CAST BOX SECTION
NTS

B SECTION
NTS



DETAIL A (TYPICAL)
NTS

GENERAL NOTES
PRE-CAST BOXES

Concrete - f'c = 5,000 psi
Grade 60 Reinf - f's = 24,000 psi

All reinforcing shall have 2" clear cover unless noted otherwise.

Design loading:
Cooper E-80 loading

FOR BOX CULVERT NO. 3
DETAIL SEE DRAWING NO. B3

DETAIL D2

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	KVH	06/05
DRAWN	FRC	06/05
CHECKED	JRR	06/05

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

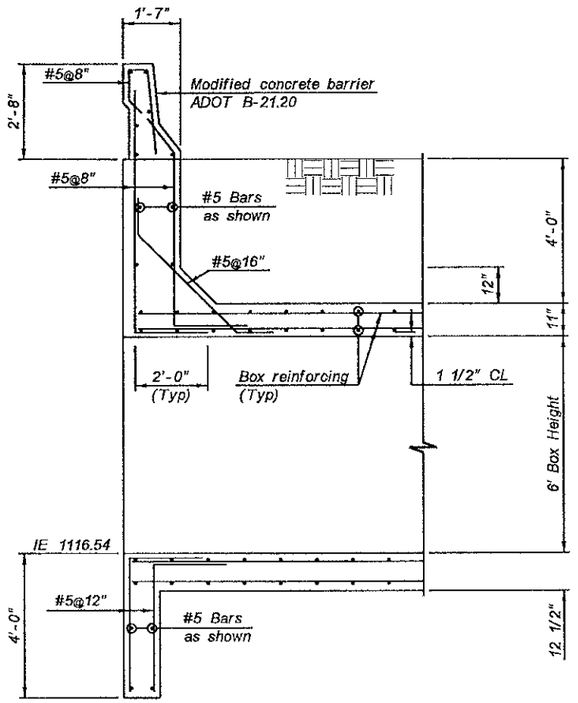
DRAWING NO. D2

BOX DETAILS @ RR TRACK

SHEET OF 13 40

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

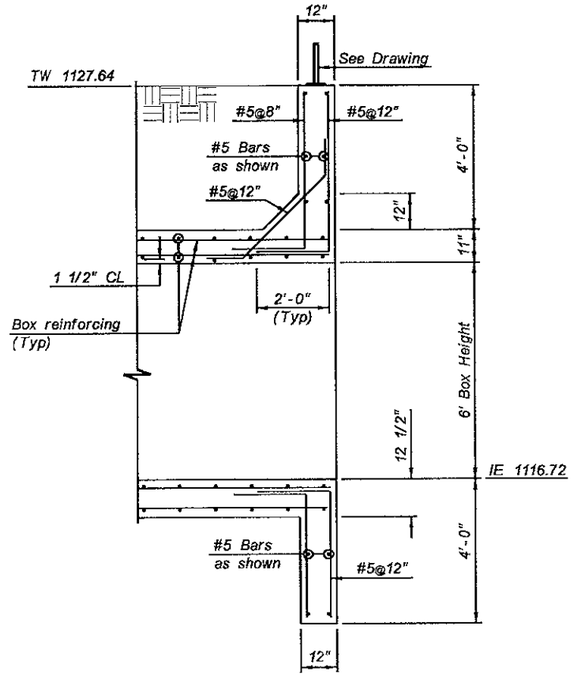
Sht13-Detail2.dgn 06/23/2005 02:29:24 PM



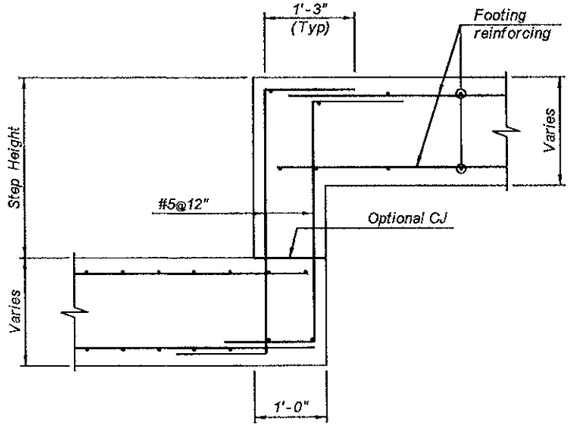
DETAIL OF HEADWALL
W/TRAFFIC BARRIERS & HEADWALL
AT OLIVE AVENUE SOUTH END
NTS

NOTE:

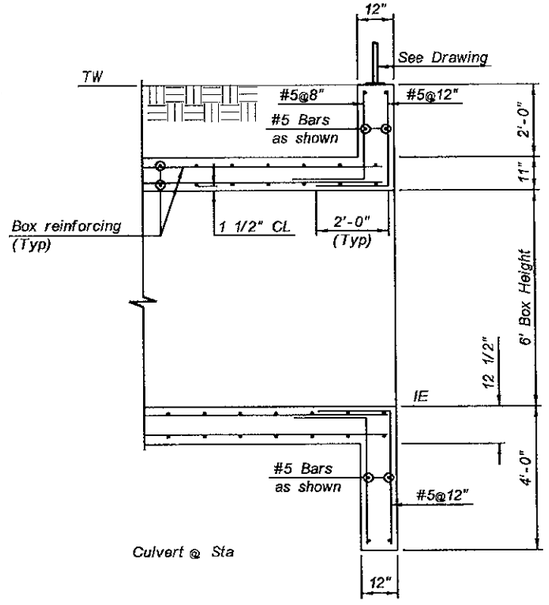
Use 11" thick top slab instead of 10 1/2" ADOT standard. Also use 1 1/2" clear cover for bottom reinforcing of top slab instead of 1" ADOT standard.



DETAIL OF HEADWALL & TOE DOWN
AT OLIVE AVENUE NORTH END
NTS



FOOTING STEP DETAIL
NTS



DETAILS OF HEADWALL
& TOE DOWN
NTS

TWO WORKING DAYS
BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

	BY	DATE
DESIGNED	KVH	06/05
DRAWN	FRC	06/05
CHECKED	JRR	06/05

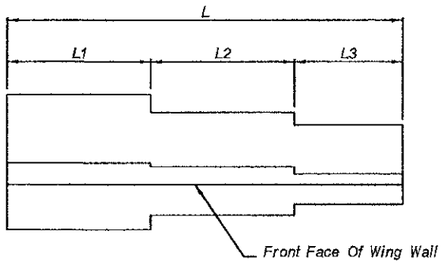
DRAWING NO. D3

BOX DETAILS @ RR TRACK

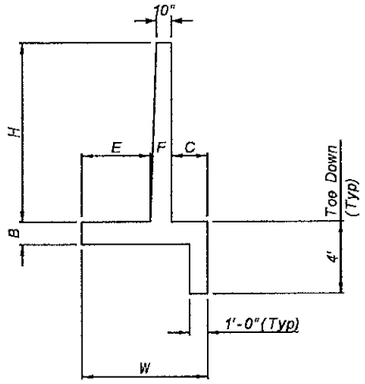
SHEET OF 14 40

DETAIL D3

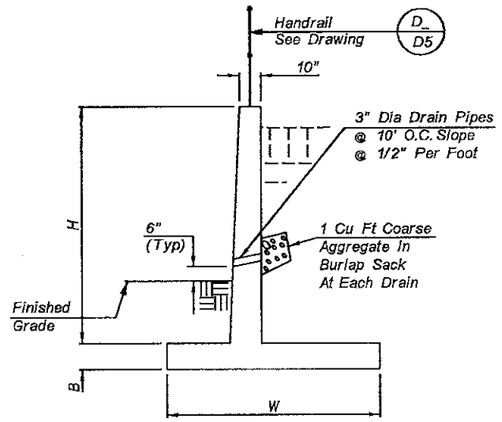
Sht14-Detail3.dgn 06/23/2005 02:30:20 PM



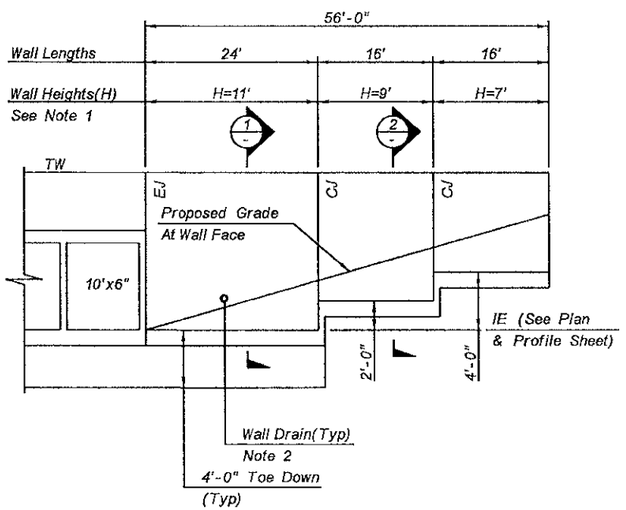
TYPICAL WING WALL PLAN
NTS



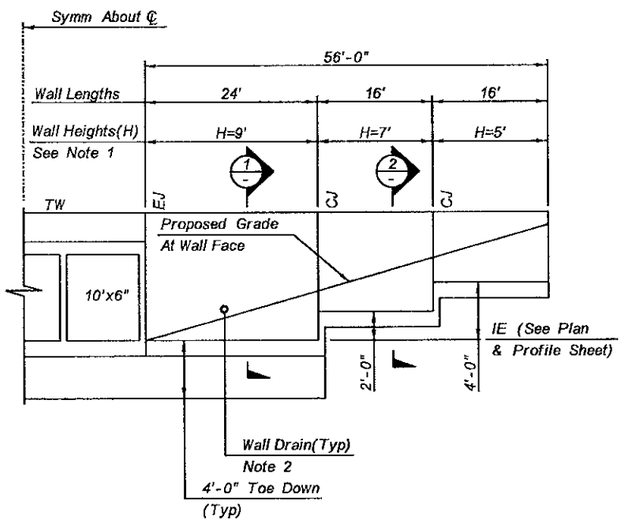
TYPICAL SECTION 1
NTS



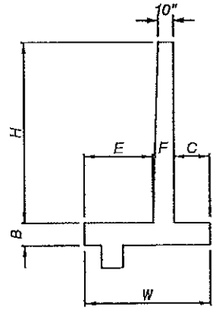
WALL DRAIN DETAIL TYPICAL 3
NTS



WING WALL ELEVATION
WITH 4' HEADWALL
SCALE: 1'-0" = 10' (H)
1'-0" = 4' (V)



WING WALL ELEVATION
WITH 2' HEADWALL
SCALE: 1'-0" = 10' (H)
1'-0" = 4' (V)



TYPICAL SECTION 2
NTS

H	B	C	F	E	W
11'	1'-4"	1-10"	1'-2"	5'-3"	8'-3"
9'	1'-3"	1'-6"	1'-0"	4'-0"	6'-6"
7'	1'-2"	1'-2"	10"	3'-0"	5'-0"
5'	1'-0"	1'-0"	10"	1'-8"	3'-6"

RETAINING WALL DETAILS
NTS

NOTE:

1. For typical dimensions and reinforcement details refer to Case III Sloping fill of ADOT B-18.30 and B-18.10 for specified wall heights. Actual wall height may vary and depends on top of wall elevations shown. All reinforcing steel shall have 2" clear cover unless otherwise noted.
2. Typical wall drains as shown are required.

DETAIL D4

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

	BY	DATE
DESIGNED	KVH	06/05
DRAWN	FRC	06/05
CHECKED	JRR	06/05

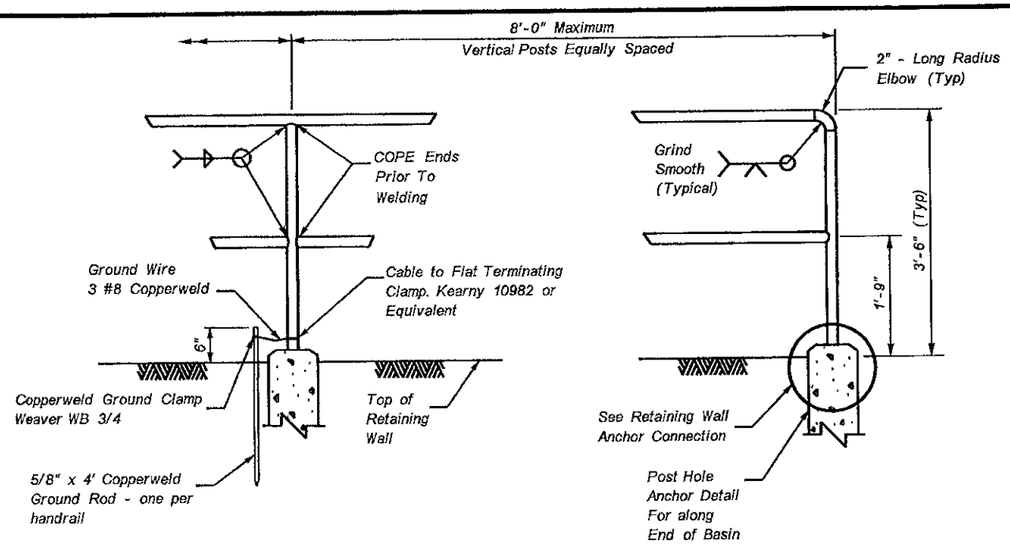
DRAWING NO. D4

PLAN AND DETAIL VIEW

SHEET OF 15 40

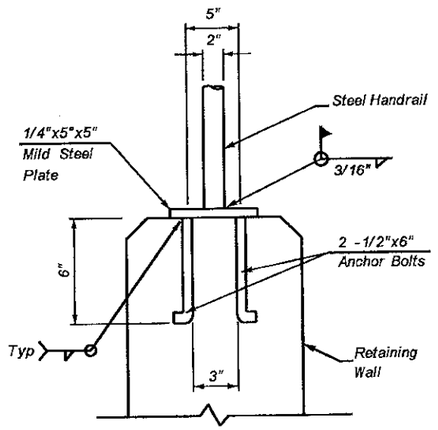
TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

Sht15-Detai4.dgn 06/23/2005 02:31:22 PM

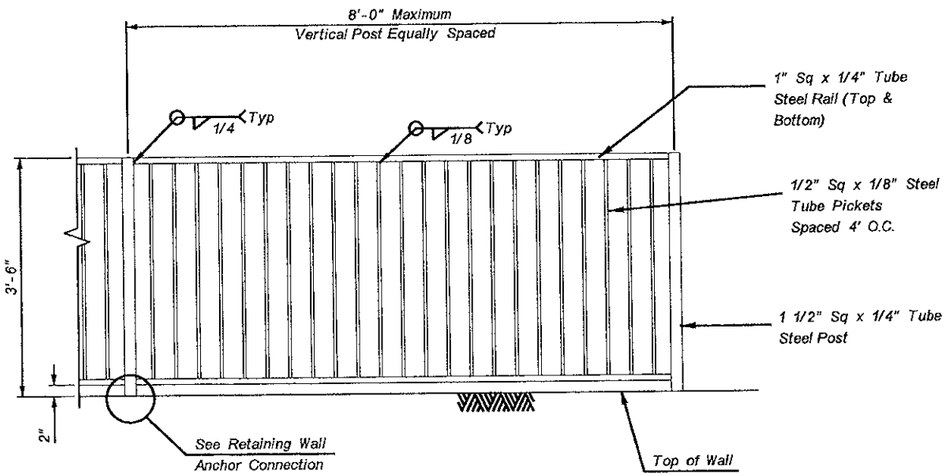


NOTE:
ALL HANDRAILS TO BE PAINTED PER PROJECT SPECIAL PROVISIONS.

PIPE HANDRAIL ELEVATION
NTS



RETAINING WALL ANCHOR CONNECTION
NTS



TUBE HANDRAIL ELEVATION
NTS

HANDRAIL DETAILS
NTS

DETAIL D5

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	KVH	06/05
DRAWN	FRC	06/05
CHECKED	JRR	06/05

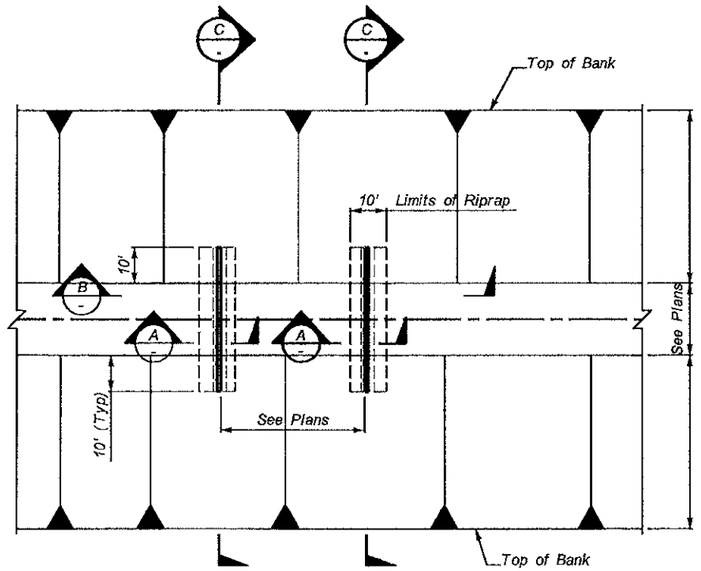
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

DRAWING NO. D5

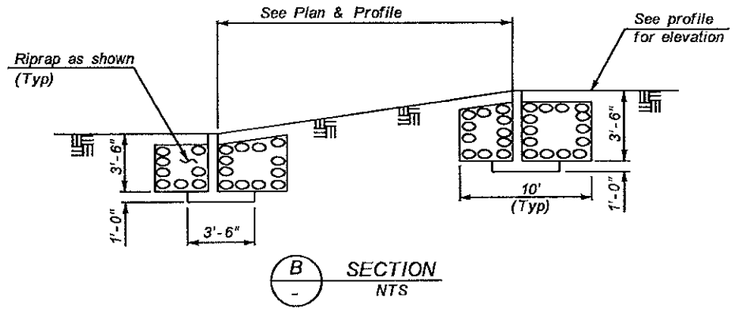
FENCE DETAILS

SHEET OF 16 40

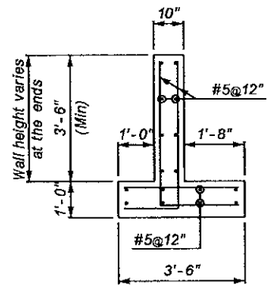
Sht16-Detail5.dgn 06/23/2005 02:32:30 PM



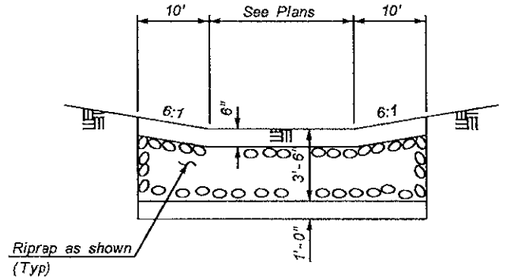
PLAN
NTS



B SECTION
NTS



A DETAIL
NTS



C SECTION
NTS

NOTES

D_{50} = 18 INCHES

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	KVH	06/05
DRAWN	FRC	06/05
CHECKED	JRR	06/05

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

DRAWING NO. D6

GRADE CONTROL STRUCTURE

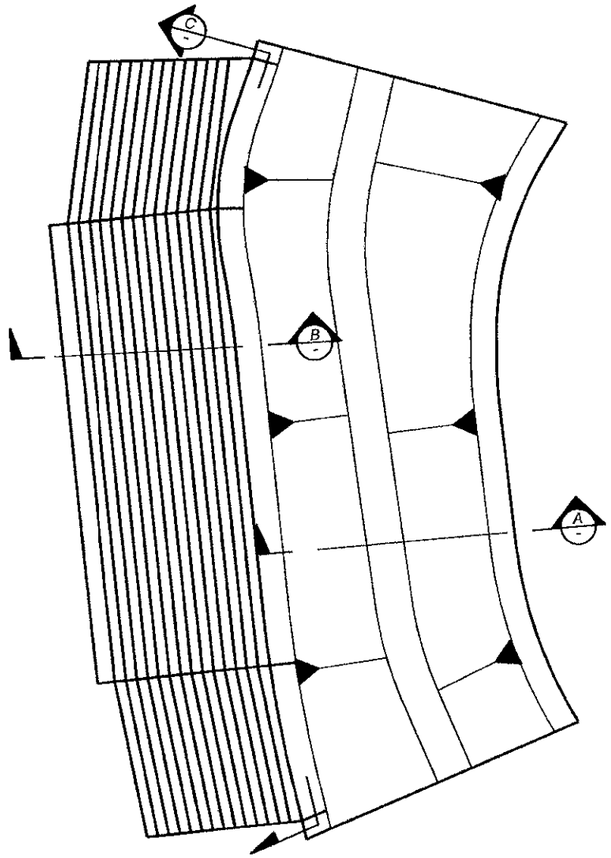
SHEET OF 17 40

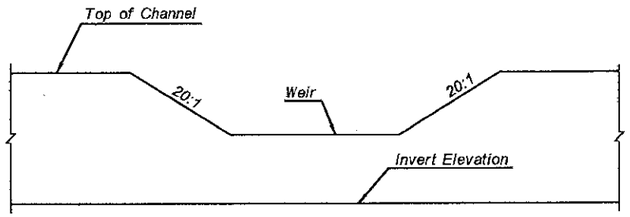
TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

CHANNEL GRADE CONTROL STRUCTURE

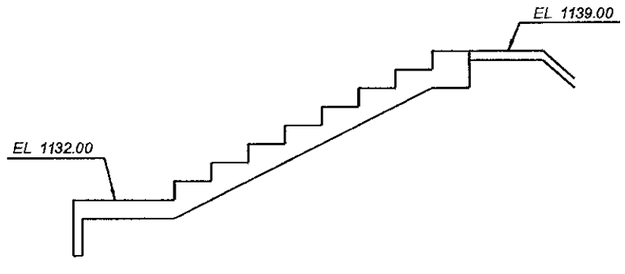
DETAIL D6

Sht17-Detail6.dgn 06/23/2005 02:33:38 PM

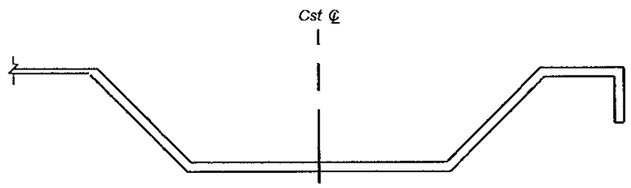




SECTION C-C
NTS



SECTION B-B
NTS



SECTION A-A
NTS

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

DRAWING NO. D6

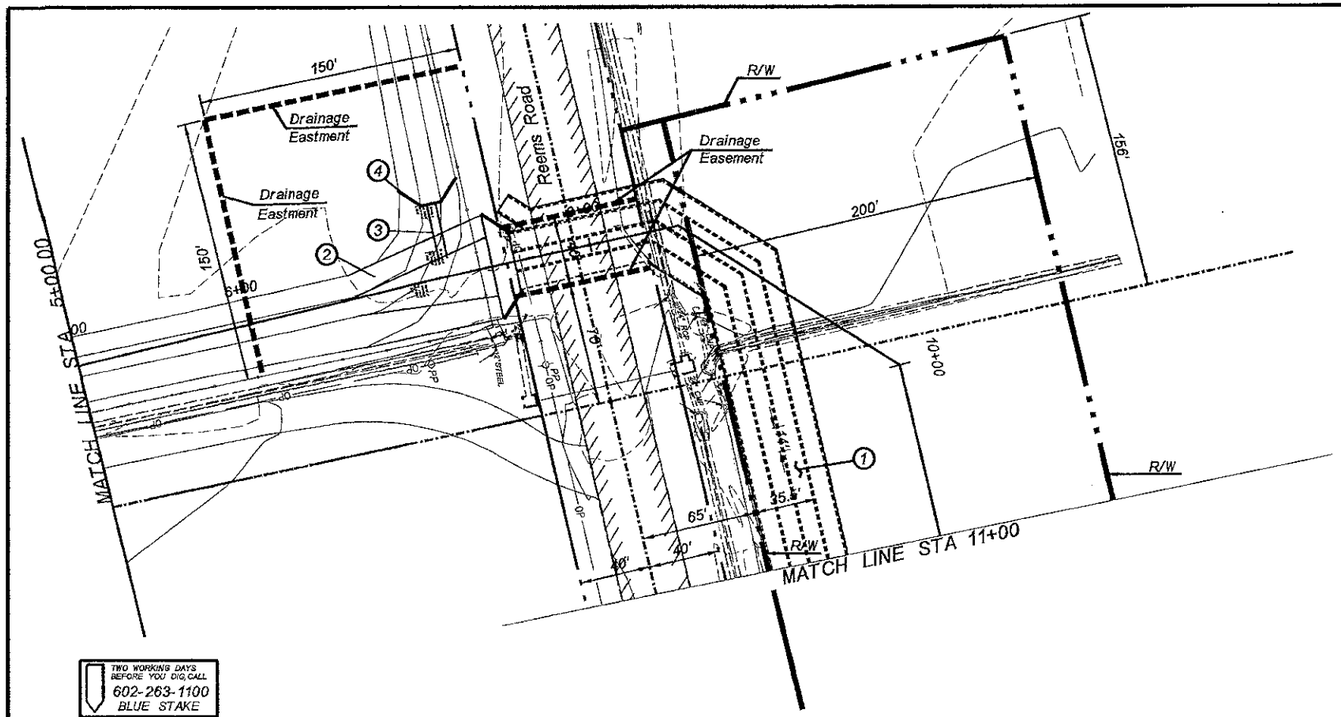
WEIR DETAIL

SHEET OF 40

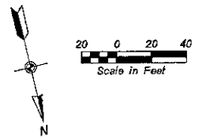
DETAIL D6

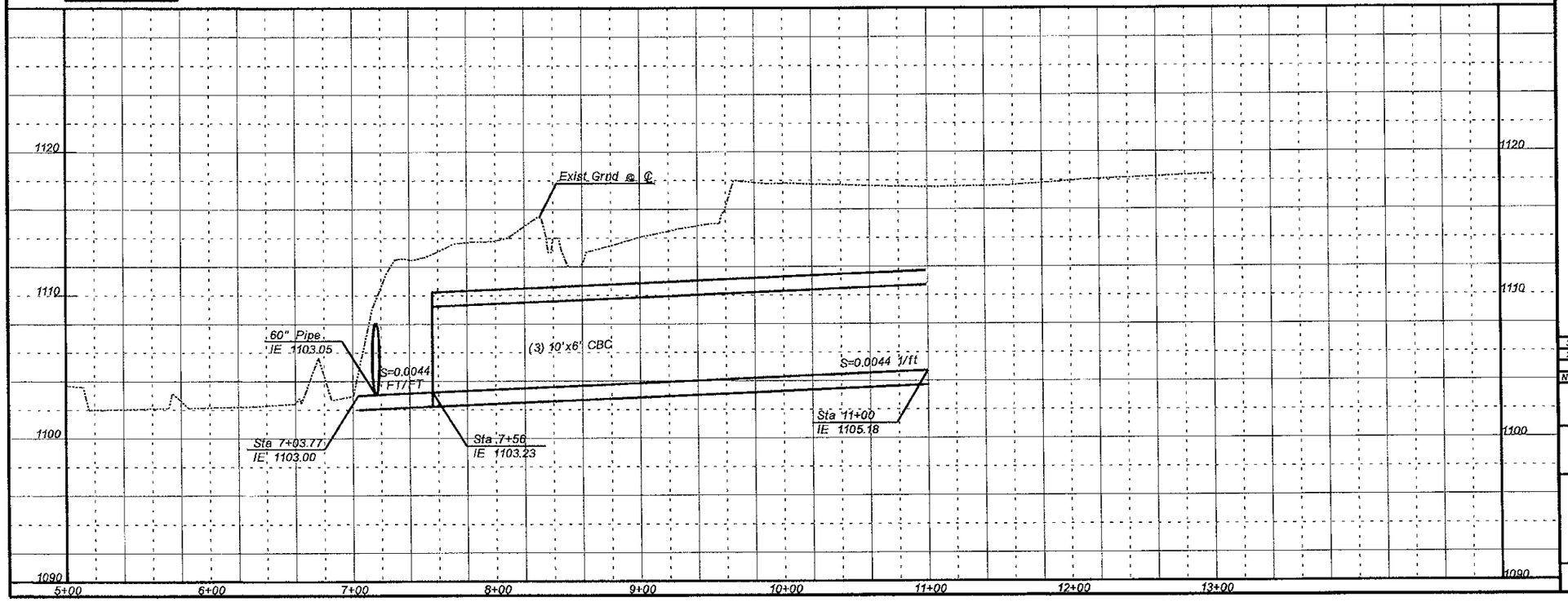
TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

Sht18-Detail7.dgn 27-Jun-05 03:06:19 PM



TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE





REMOVE

CONSTRUCT

1. CONSTRUCT CONCRETE BOX CULVERT NO. 1 SEE DRAWING B01 — 1 EA
2. CONSTRUCT CONCRETE CHANNEL LINING — 500 SY
3. INSTALL 60-INCH PIPE — 33 LF
4. CONSTRUCT CONCRETE HEADWALL — 1 EA

FOR BOX CULVERT
SEE DRAWING NO. B1
(NOTE: ONE BARRELL IS FOR FUTURE STREET DRAINAGE)

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

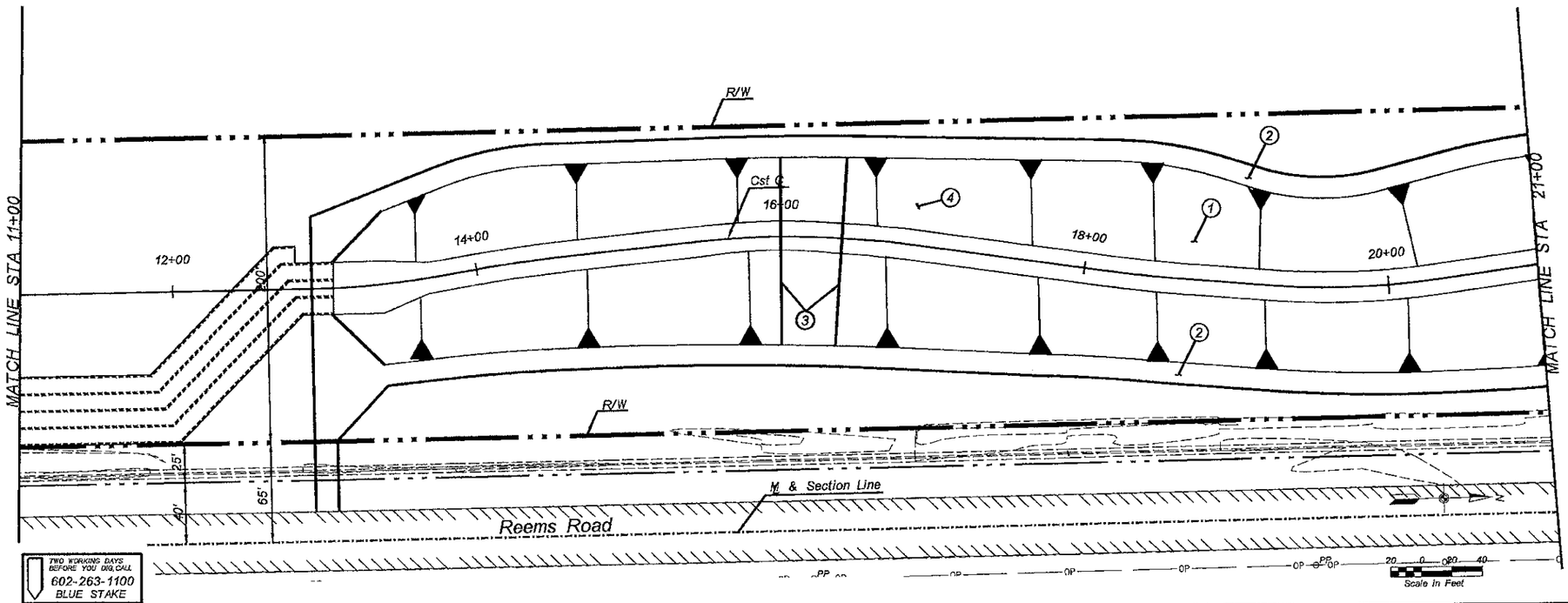
	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

DRAWING NO. C1

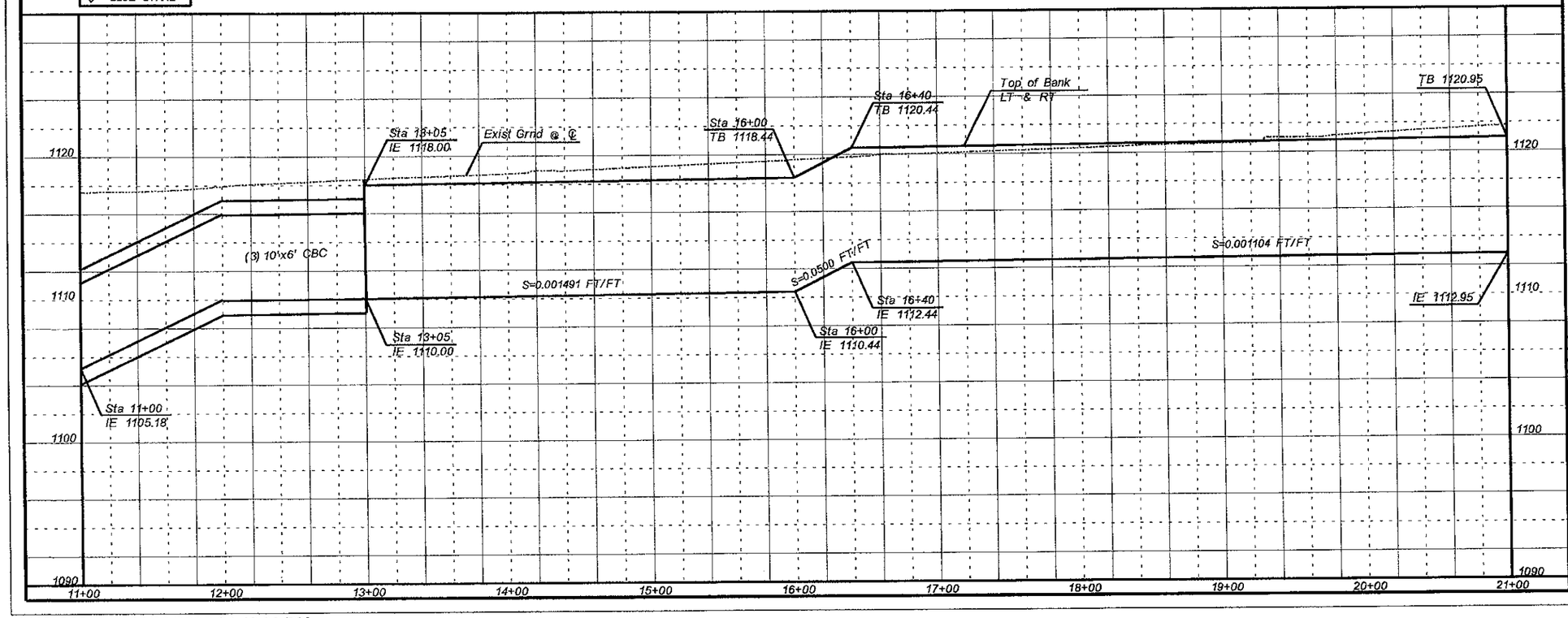
PLAN AND PROFILE SHEET STA 5+00 TO 11+00

SHEET OF 40

sht18-C01.dgn 06/23/2005 04:39:22 PM



TWO WORKING DAYS BEFORE YOU DIG CALL
602-263-1100
BLUE STAKE



REMOVE

CONSTRUCT

1. CONSTRUCT EARTHEN CHANNEL — CY
2. CONSTRUCT 4" ABC MAINTENANCE ROAD — 2,954 SY
3. CONSTRUCT CONCRETE GRADE CONTROL STRUCTURE. SEE DETAIL XX — 2 EA
4. NATIVE SEED MIX — 9,123 SY

FOR BOX CULVERT
SEE DRAWING NO. B1

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

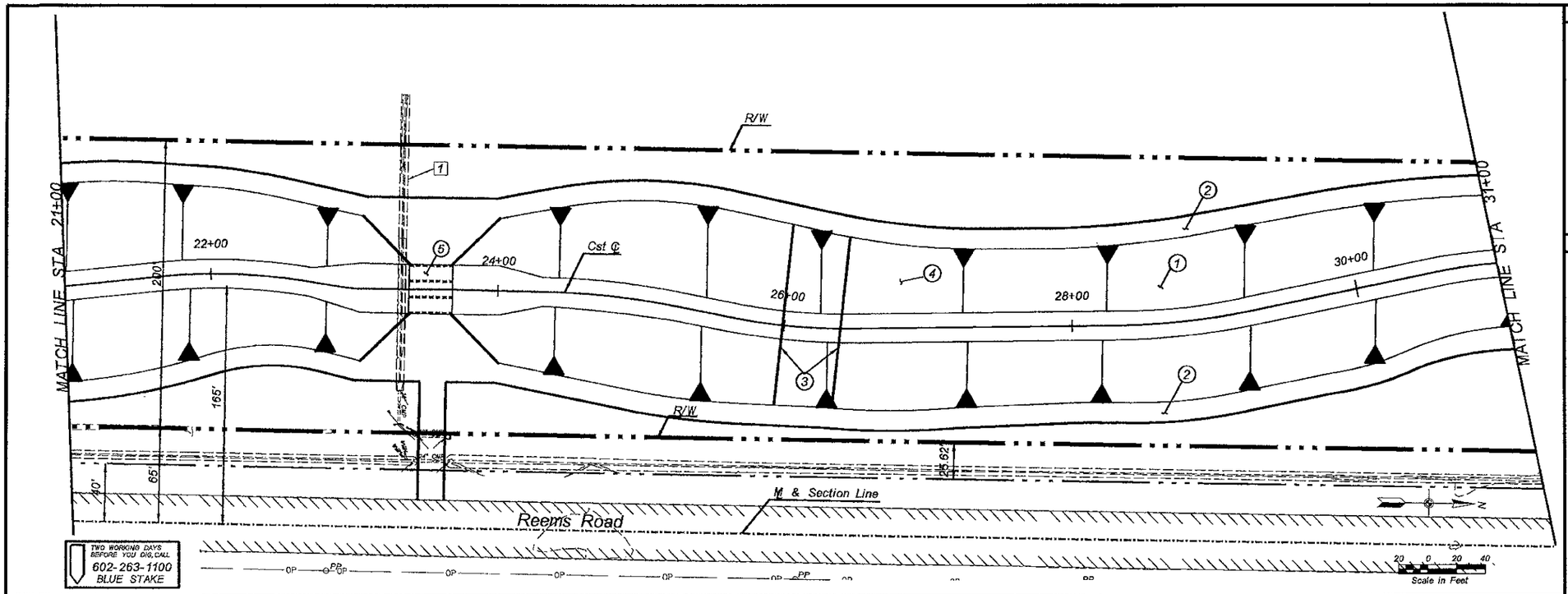
FCD PROJECT NO. 470-12-31

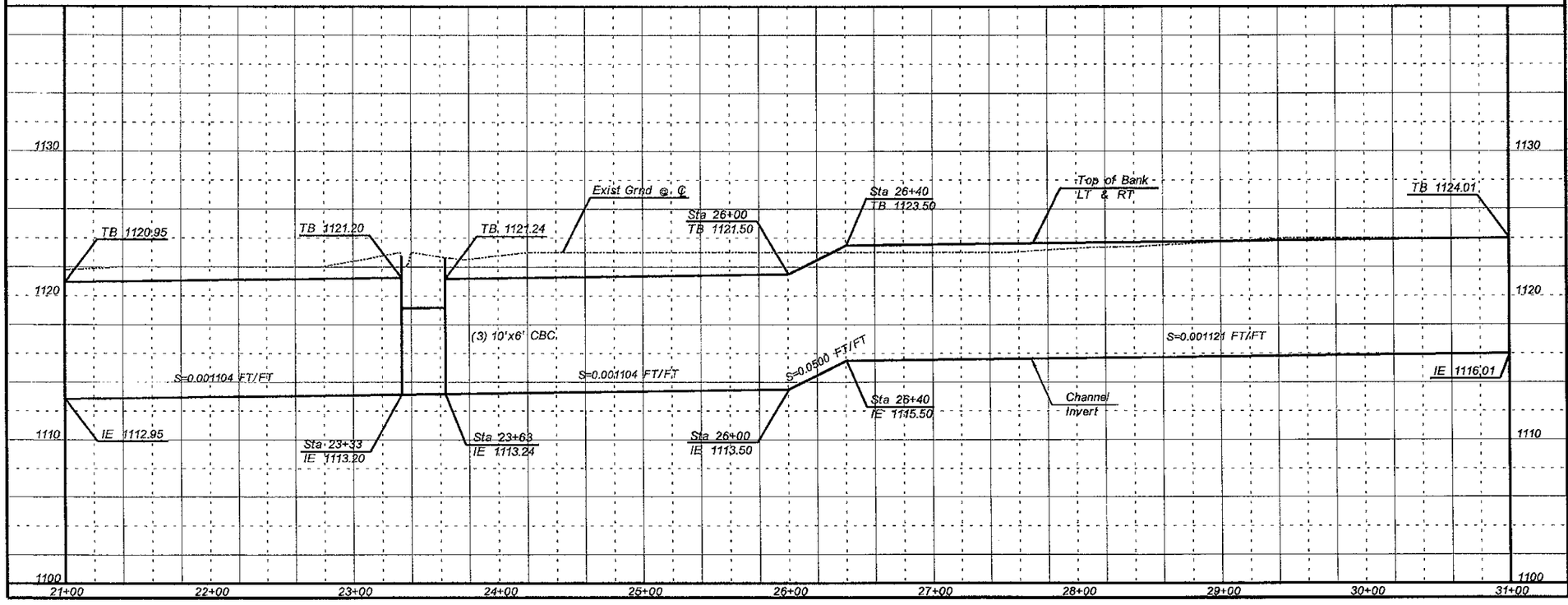
PRELIMINARY
NOT FOR
CONSTRUCTION

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

DRAWING NO.	PLAN AND PROFILE SHEET	SHEET OF
C2	STA 11+00 TO STA 21+00	40

sht19-C02.dgn 06/23/2005 04:40:28 PM





REMOVE

1. REMOVE CONCRETE LINED DITCH (NPI) 180 LF

CONSTRUCT

1. CONSTRUCT EARTHEN CHANNEL CY
2. CONSTRUCT 4" ABC MAINTENANCE ROAD 3,111 SY
3. CONSTRUCT CONCRETE GRADE CONTROL STRUCTURE. SEE DETAIL XX 2 EA
4. NATIVE SEED MIX 11,333 SY
5. CONSTRUCT CONCRETE BOX CULVERT NO.2 SEE DRAWING B02 1 LS

FOR CONCRETE BOX CULVERT SEE DRAWING NO. B2

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

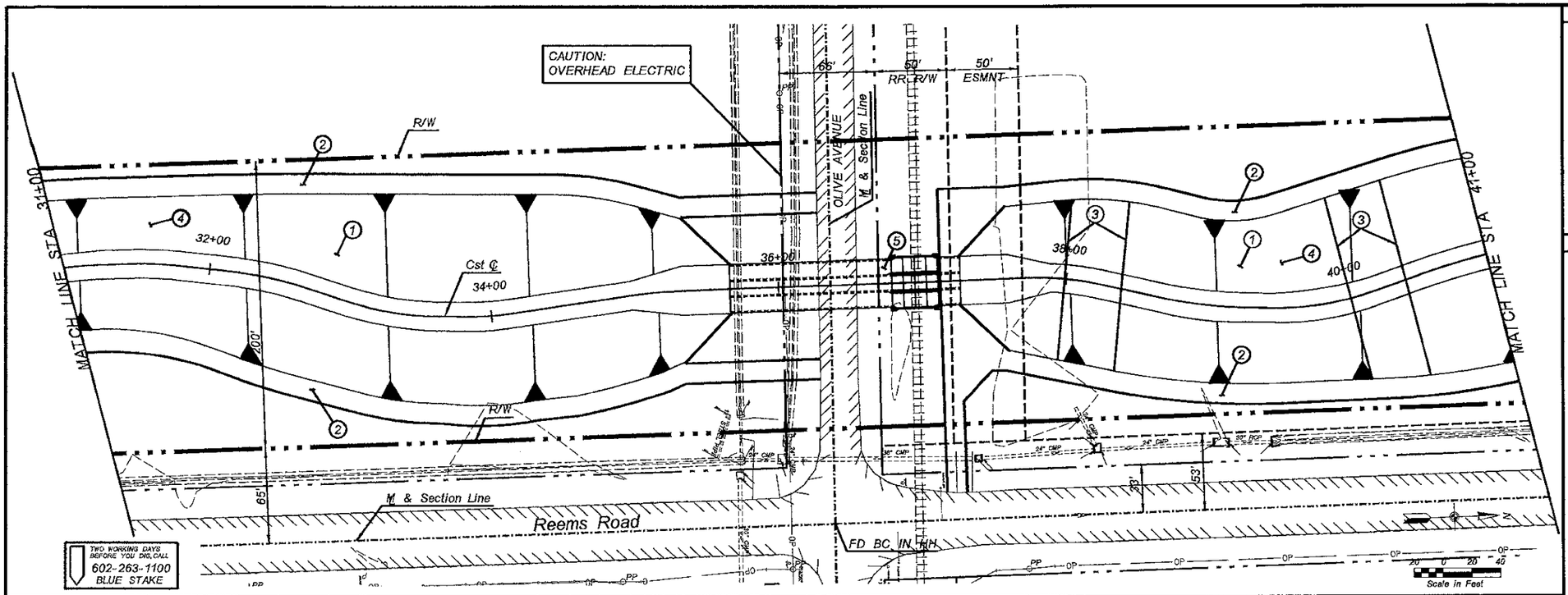
	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

DRAWING NO. C3

PLAN AND PROFILE SHEET STA 21+00 TO STA 31+00

SHEET OF 40

sht20-C03.dgn 06/23/2005 04:48:17 PM



REMOVE

CONSTRUCT

1. CONSTRUCT EARTHEN CHANNEL — CY
2. CONSTRUCT 4" ABC MAINTENANCE ROAD — 3,811 SY
3. CONSTRUCT CONCRETE GRADE CONTROL STRUCTURE, SEE DETAIL XX — 4 EA
4. NATIVE SEED MIX — 9,320 SY
5. CONSTRUCT CONCRETE BOX CULVERT NO. 3 SEE DRAWING B03 — 1 LS

SEE DRAWING B3 FOR CONCRETE BOX CULVERT CONSTRUCTION

SEE DRAWINGS IR1 & IR2 FOR SIPHON CONSTRUCTION

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

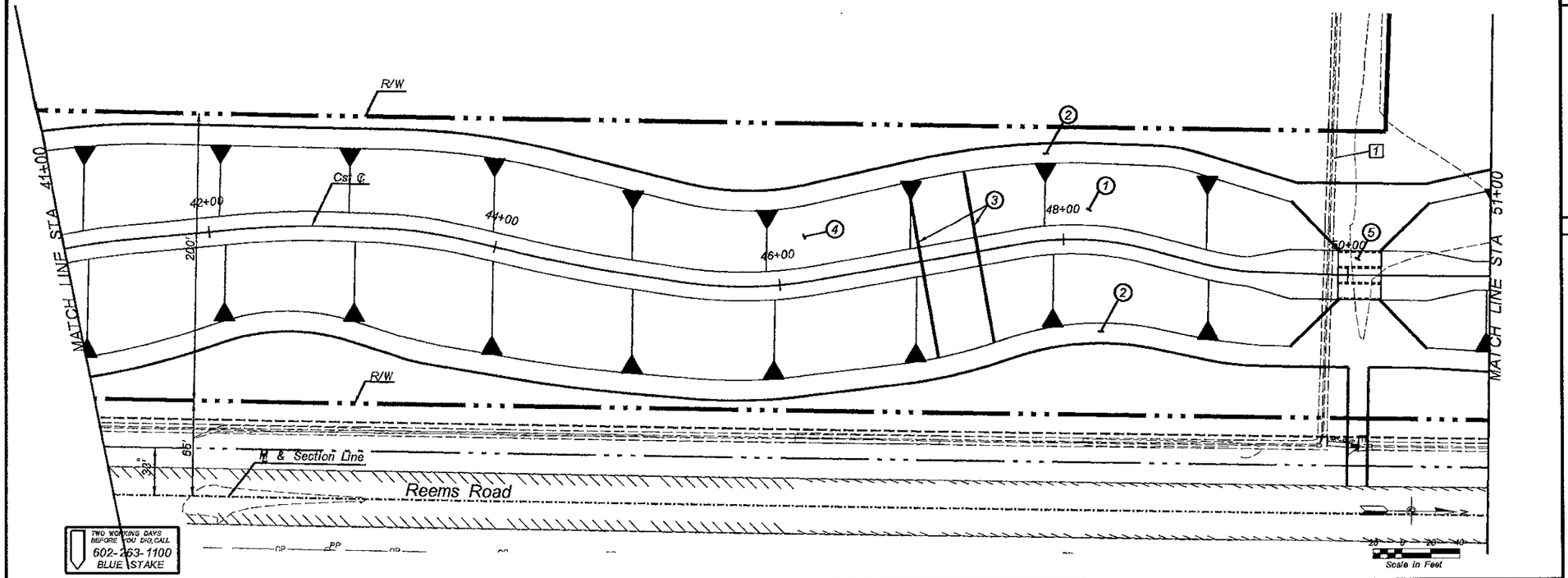
FCD PROJECT NO. 470-12-31

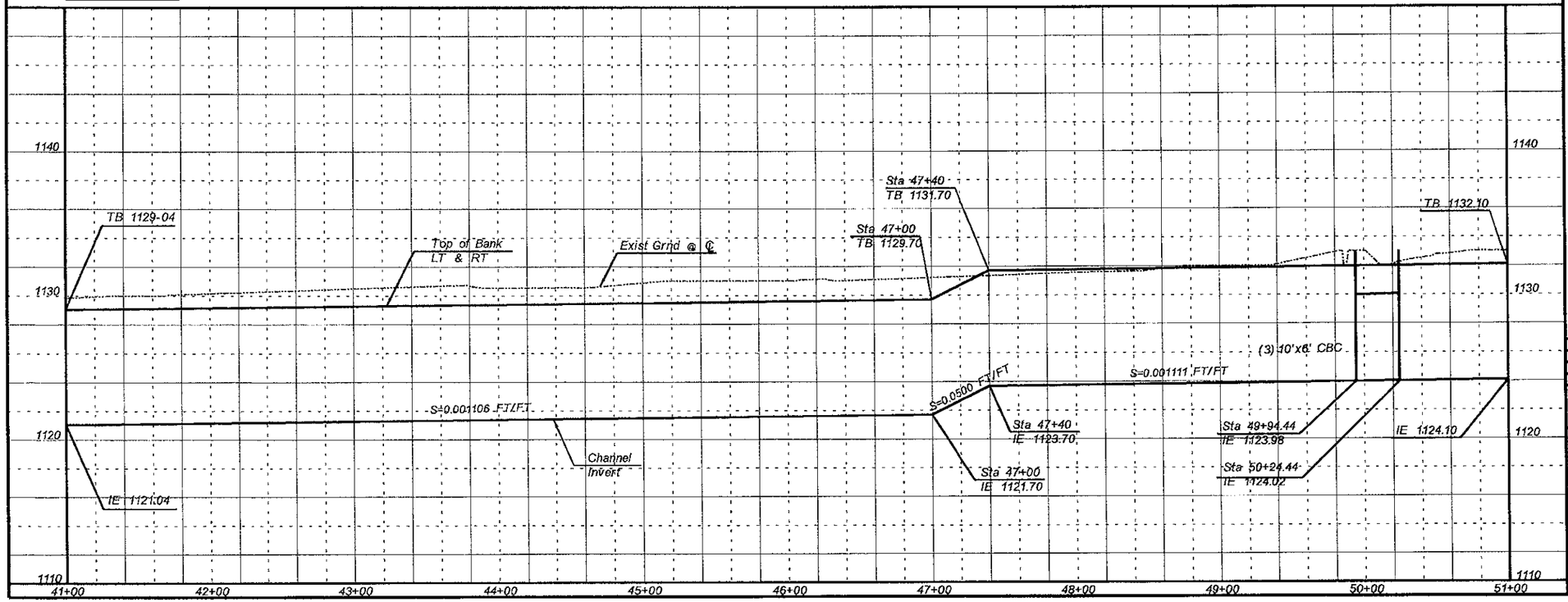
	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

PRELIMINARY NOT FOR CONSTRUCTION

DRAWING NO.	PLAN AND PROFILE SHEET STA 31+00 TO STA 41+00	SHEET OF
C4		40

sht21-C04.dgn 06/23/2005 04:49:17 PM





REMOVE

1. REMOVE CONCRETE LINED DITCH (NPI) 210 LF

CONSTRUCT

1. CONSTRUCT EARTHEN CHANNEL CY
2. CONSTRUCT 4" ABC MAINTENANCE ROAD 3,111 SY
3. CONSTRUCT CONCRETE GRADE CONTROL STRUCTURE. SEE DETAIL XX 2 EA
4. NATIVE SEED MIX 11,333 SY
5. CONSTRUCT CONCRETE BOX CULVERT NO. 4 SEE DRAWING NO. 4 1 LS

FOR CONCRETE BOX CULVERT SEE DRAWING NO. B4

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

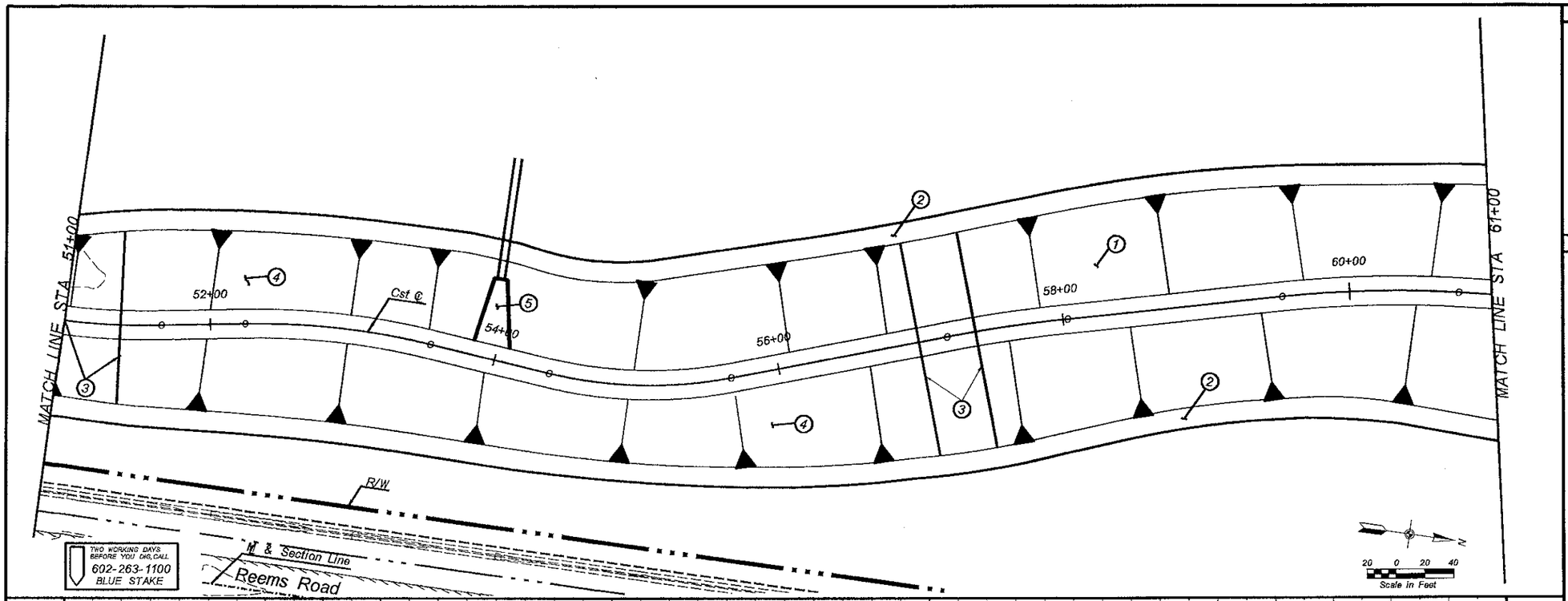
FCD PROJECT NO. 470-12-31

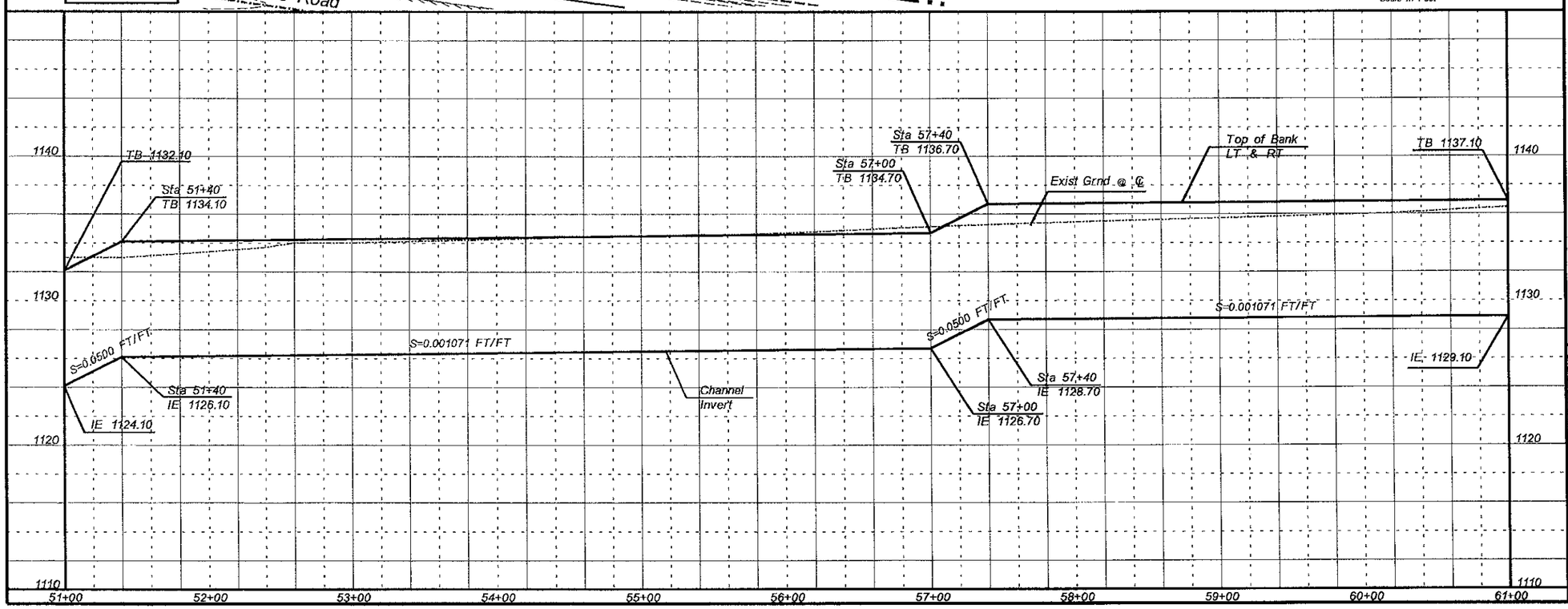
	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

PRELIMINARY NOT FOR CONSTRUCTION

DRAWING NO.	PLAN AND PROFILE SHEET STA 41+00 TO STA 51+00	SHEET OF
C5		40

sht22-C05.dgn 06/23/2005 04:51:01 PM





REMOVE

CONSTRUCT

1. CONSTRUCT EARTHEN CHANNEL — CY
2. CONSTRUCT 4" ABC MAINTENANCE ROAD — 3,111 SY
3. CONSTRUCT CONCRETE GRADE CONTROL STRUCTURE SEE DETAIL BOX — 4 EA
4. NATIVE SEED MIX — 11,333 SYS
5. CONSTRUCT CONCRETE OUTLET STRUCTURE SEE DETAIL XX — 1 EA

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

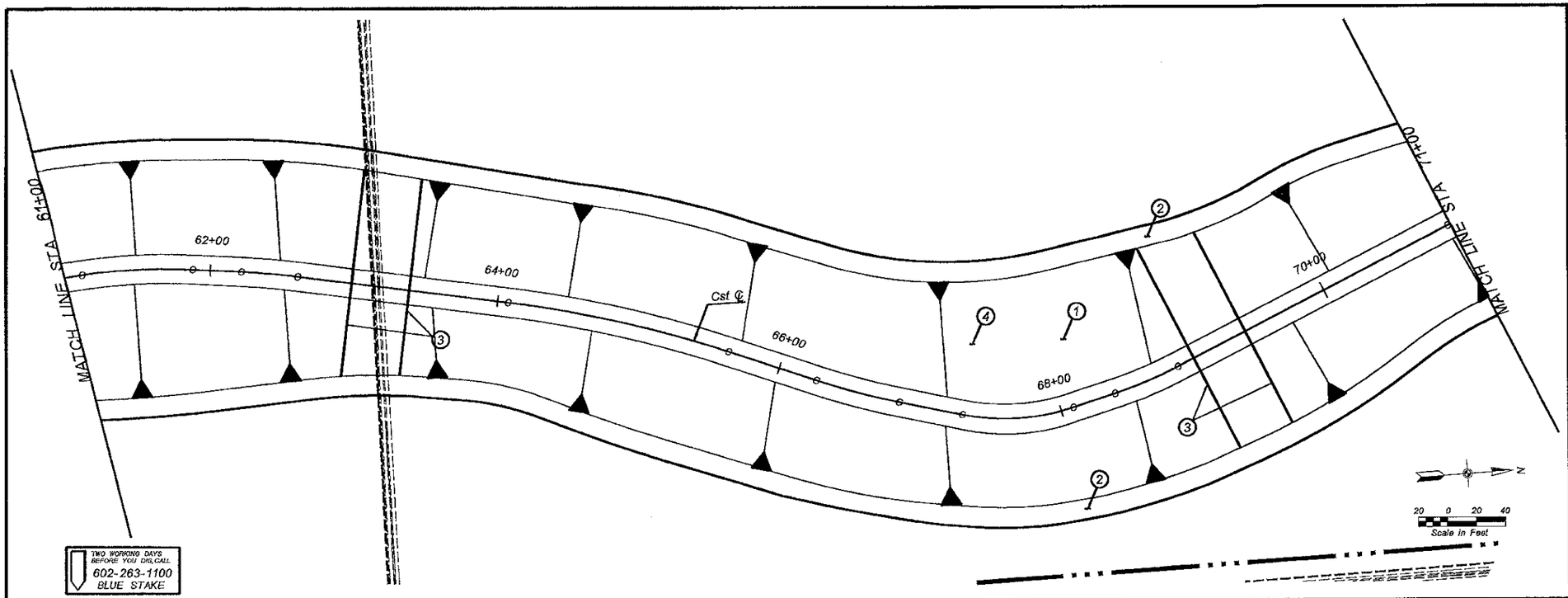
	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

DRAWING NO. C6

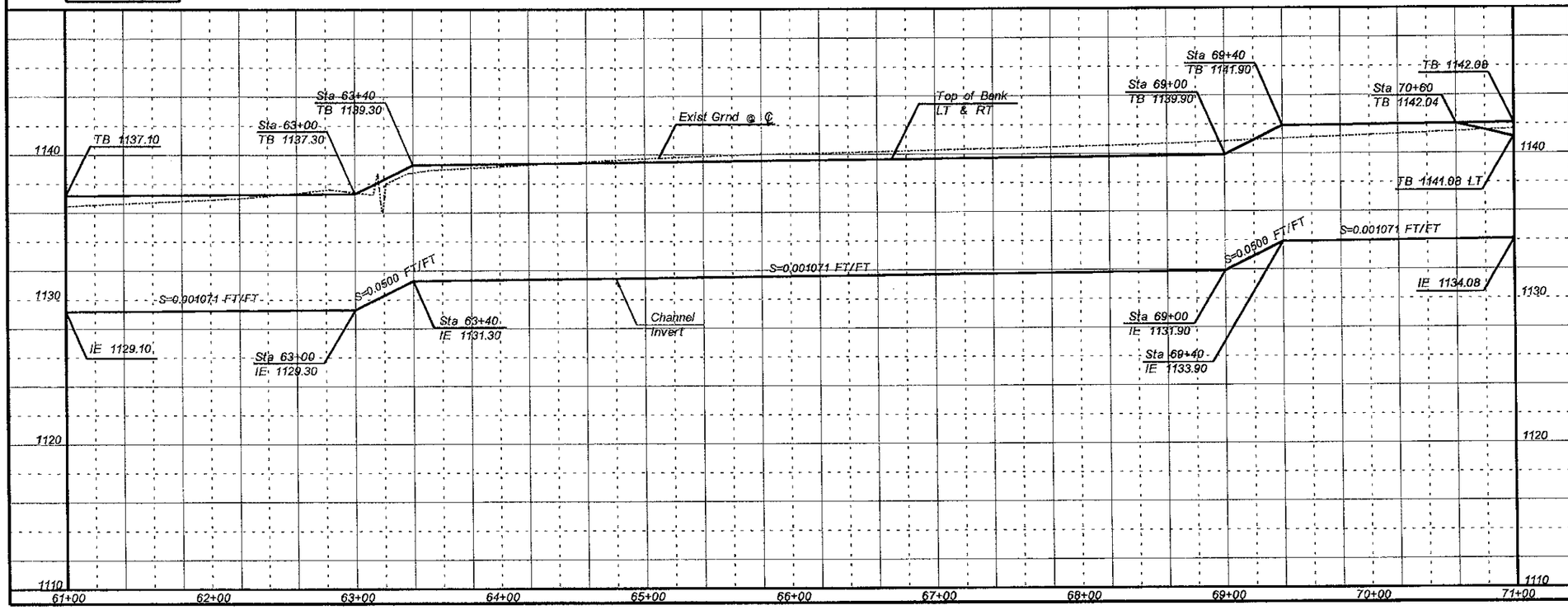
PLAN AND PROFILE SHEET STA 51+00 TO STA 61+00

SHEET OF 40

sht23-C06.dgn 06/23/2005 05:24:29 PM



TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE



REMOVE

CONSTRUCT

1. CONSTRUCT EARTHEN CHANNEL — CY
2. CONSTRUCT 4" ABC MAINTENANCE ROAD — 3,111 SY
3. CONSTRUCT CONCRETE GRADE CONTROL STRUCTURE. SEE DETAIL XX — 4 EA
4. NATIVE SEED MIX — 11,778 SY

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

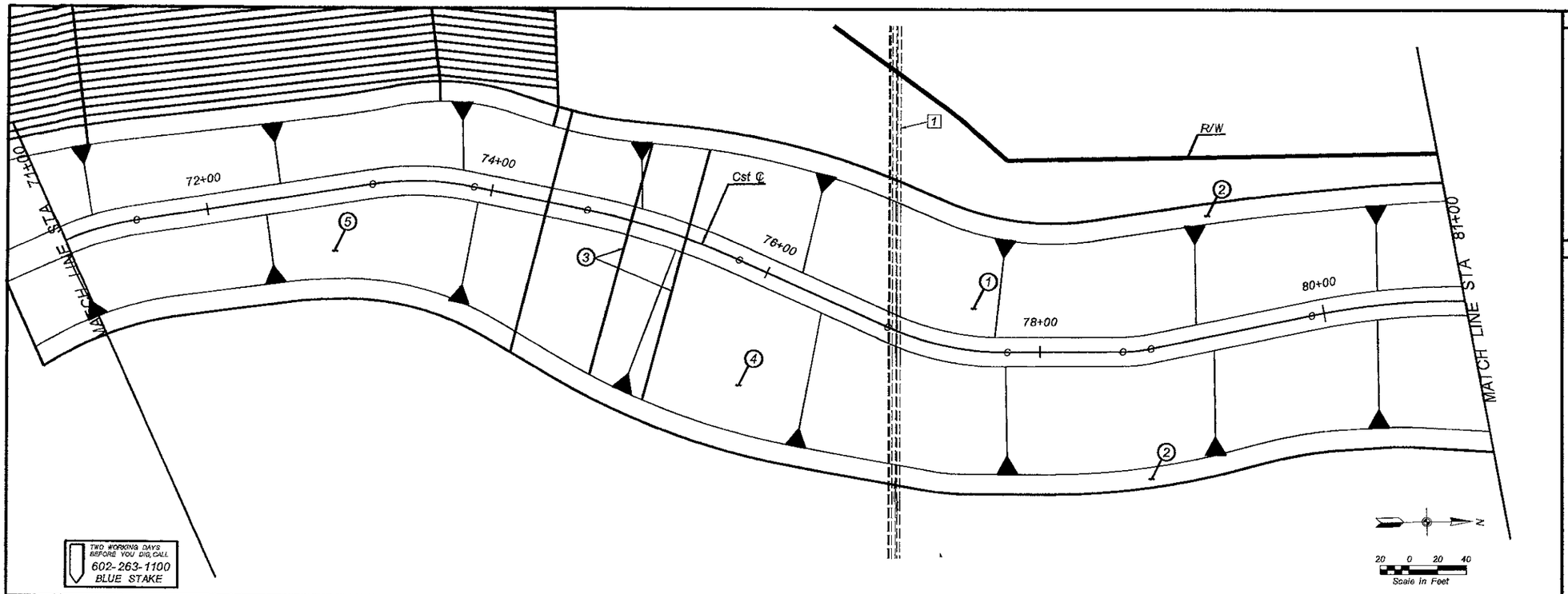
	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

DRAWING NO. C7

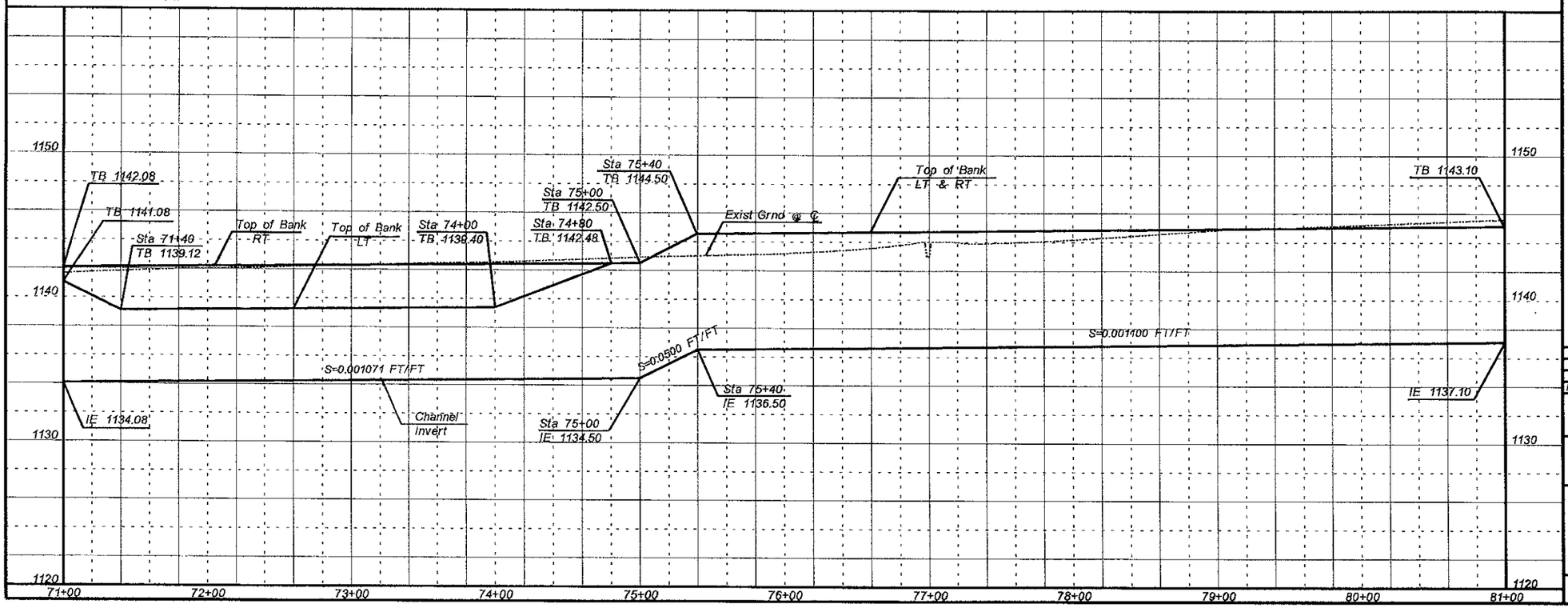
PLAN AND PROFILE SHEET STA 61+00 TO STA 71+00

SHEET OF 40

sht24-C07.dgn 06/23/2005 05:27:20 PM



TWO WORKING DAYS BEFORE YOU DIG CALL
602-263-1100
BLUE STAKE



REMOVE

1. REMOVE CONCRETE LINED DITCH (NPI) 380 LF

CONSTRUCT

1. CONSTRUCT EARTHEN CHANNEL CY
2. CONSTRUCT 4" ABC MAINTENANCE ROAD 3,111 SY
3. CONSTRUCT CONCRETE GRADE CONTROL STRUCTURE. SEE DETAIL XX 2 EA
4. NATIVE SEED MIX 14,667 SY
4. CONSTRUCT CONCRETE WEIR STRUCTURE SEE DETAIL XX 1 EA

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

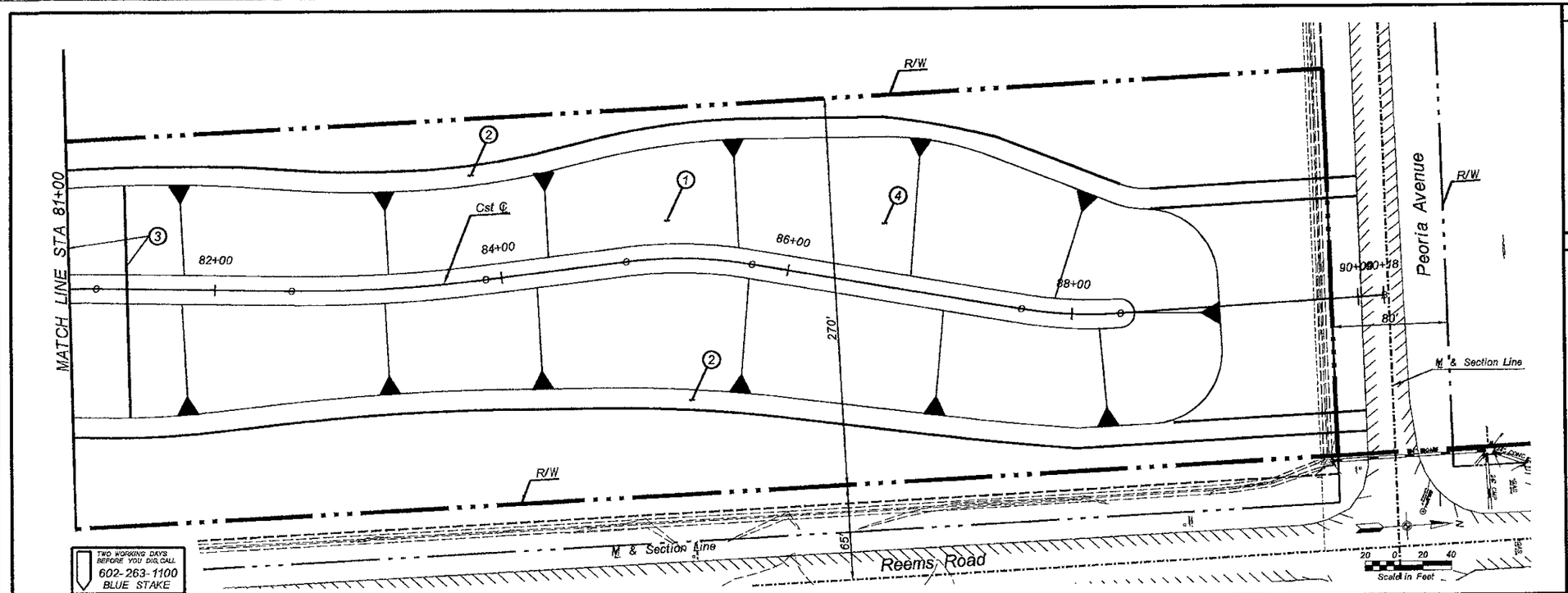
FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

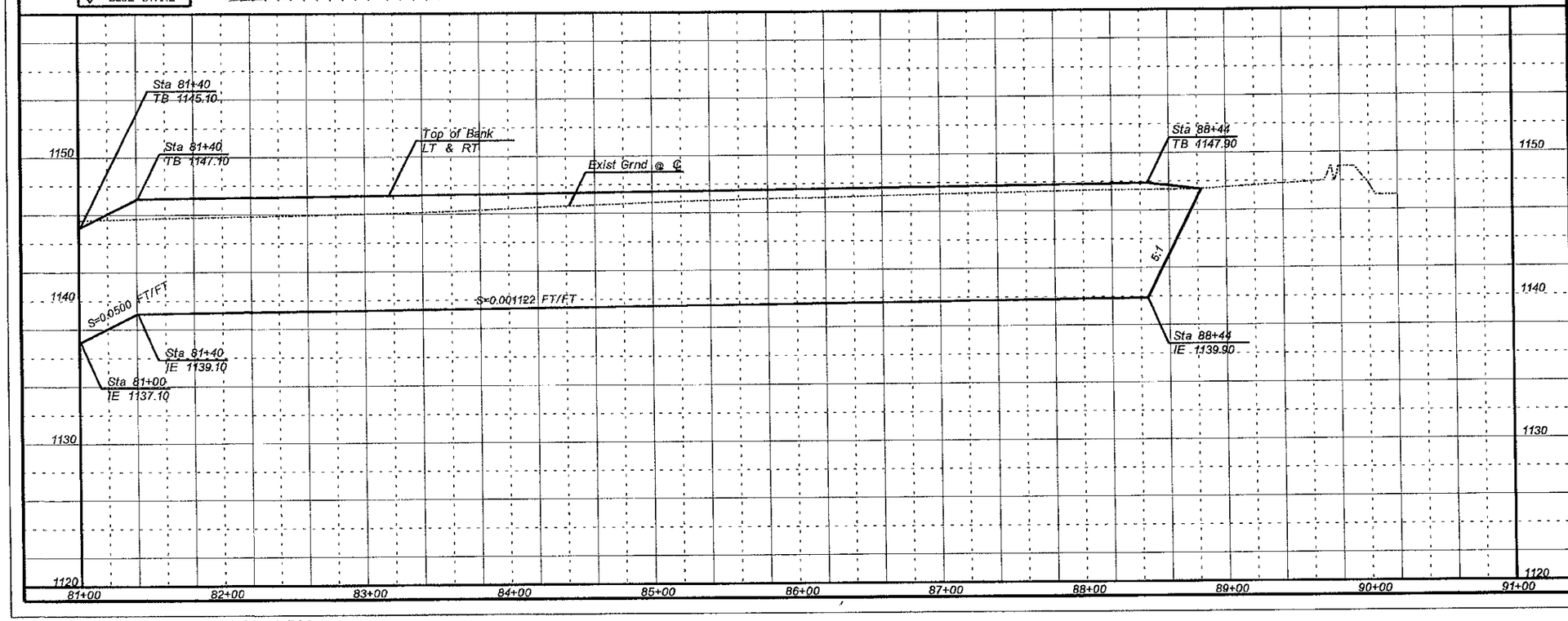
PRELIMINARY NOT FOR CONSTRUCTION

DRAWING NO.	PLAN AND PROFILE SHEET STA 71+00 TO STA 81+00	SHEET OF
C8		40

sht25-C08.dgn 06/23/2005 05:41:45 PM



TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE



REMOVE

CONSTRUCT

(1)	CONSTRUCT EARTHEN CHANNEL	CY
(2)	CONSTRUCT 4" ABC MAINTENANCE ROAD	2,778 SY
(3)	CONSTRUCT CONCRETE GRADE CONTROL STRUCTURE, SEE DETAIL XX	2 EA
(4)	NATIVE SEED MIX	10,660 SY

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

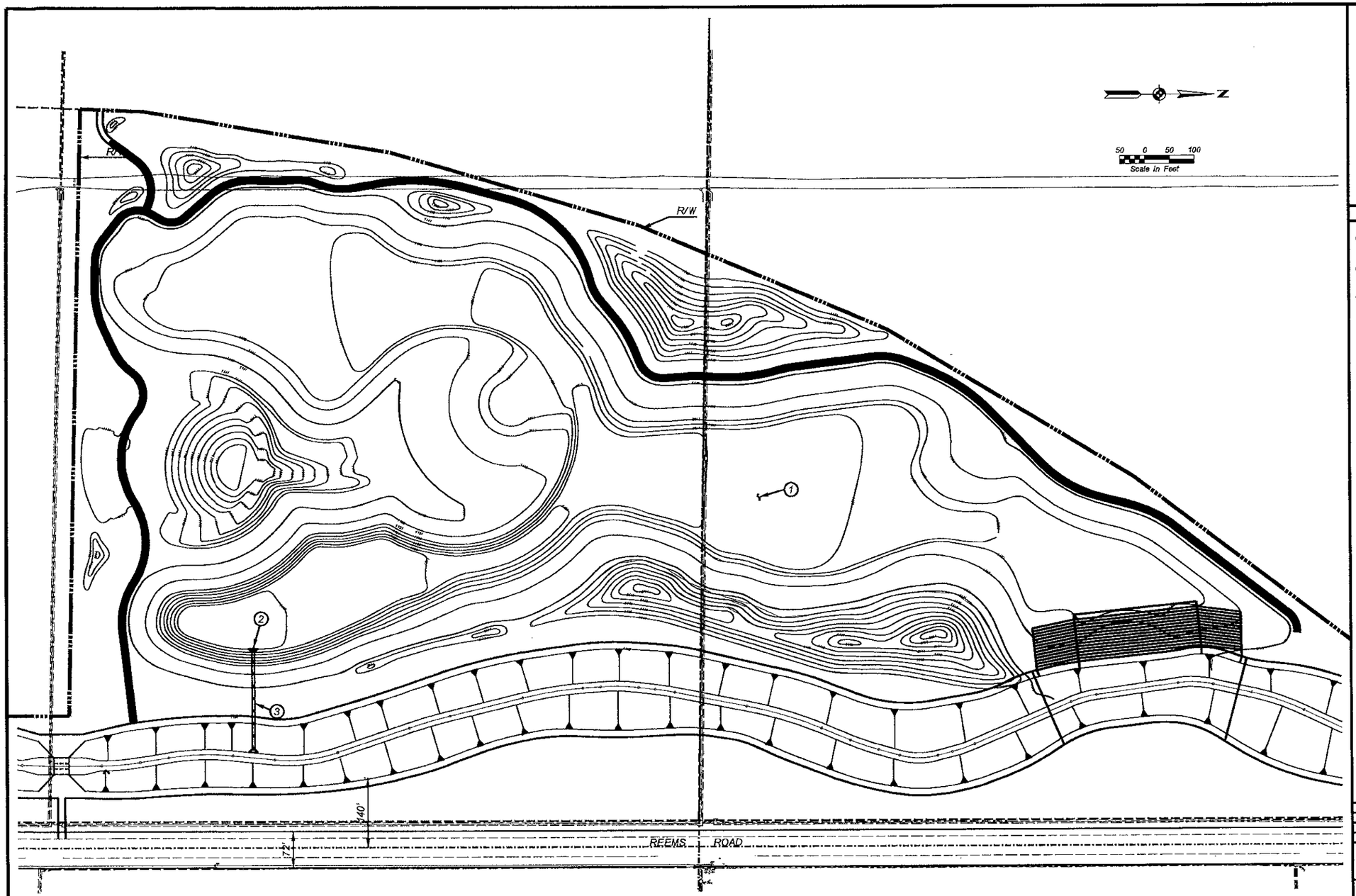
FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	JRR	05/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

PRELIMINARY NOT FOR CONSTRUCTION

DRAWING NO.	PLAN AND PROFILE SHEET	SHEET OF
C9	STA 81+00 TO STA 91+00	40

sht26-C09.dgn 06/23/2005 06:33:19 PM



TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

CONSTRUCTION

1	EXCAVATE BASIN	393,900 CY
2	CONSTRUCT INLET STRUCTURE	1 EA
3	INSTALL 60" PIPE	200 LF

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

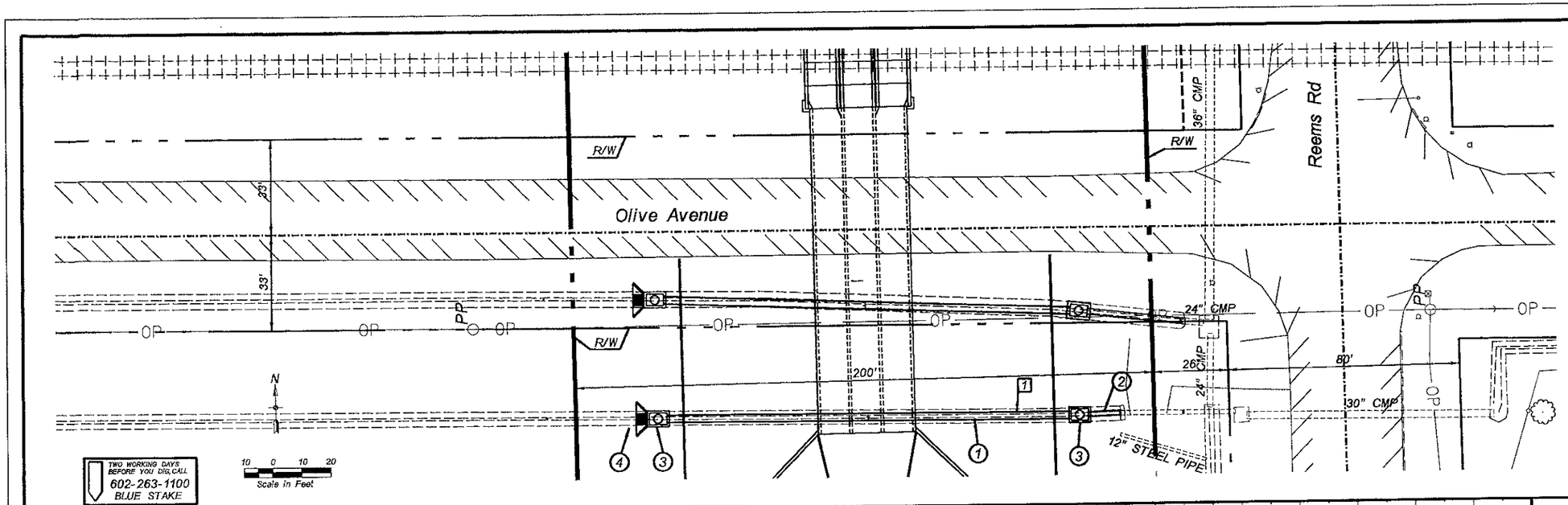
	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

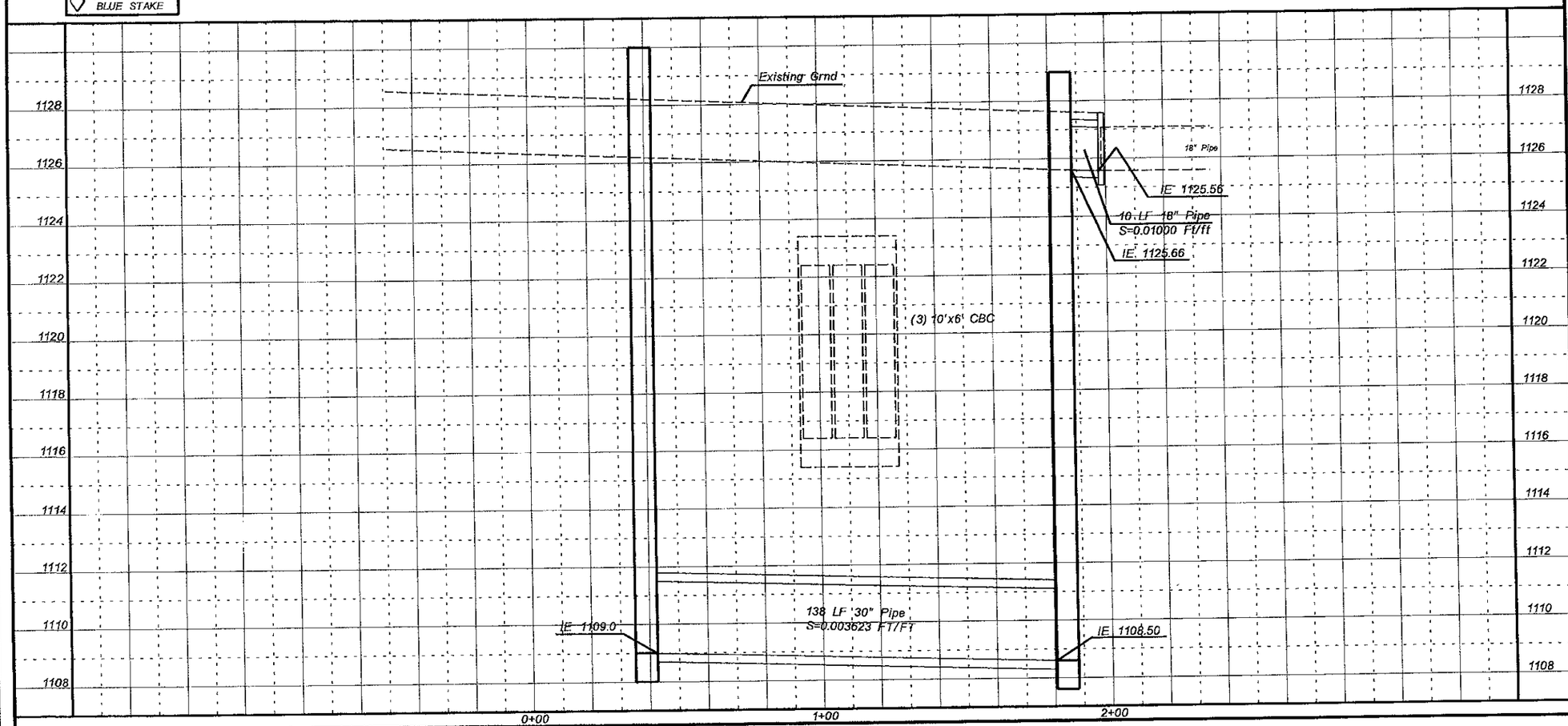
DRAWING NO. GB1

BASIN GRADING PLAN

SHEET OF 40

Sht27-Basin.dgn 06/23/2005 06:38:10 PM





REMOVE

1	REMOVE CONCRETE LINED DITCH (NPI)	165 LF

CONSTRUCT

1	INSTALL 30" PIPE	138 LF
2	INSTALL 18" PIPE	10 LF
3	CONSTRUCT IRRIGATION SIPHON MANHOLE SEE DETAIL XX	2 EA
4	CONSTRUCT CONCRETE LINED DITCH SEE DETAIL XX	5 LF

SEE DRAWING C4 FOR CHANNEL CONSTRUCTION

SEE DRAWING B3 FOR CONCRETE BOX CULVERT CONSTRUCTION

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

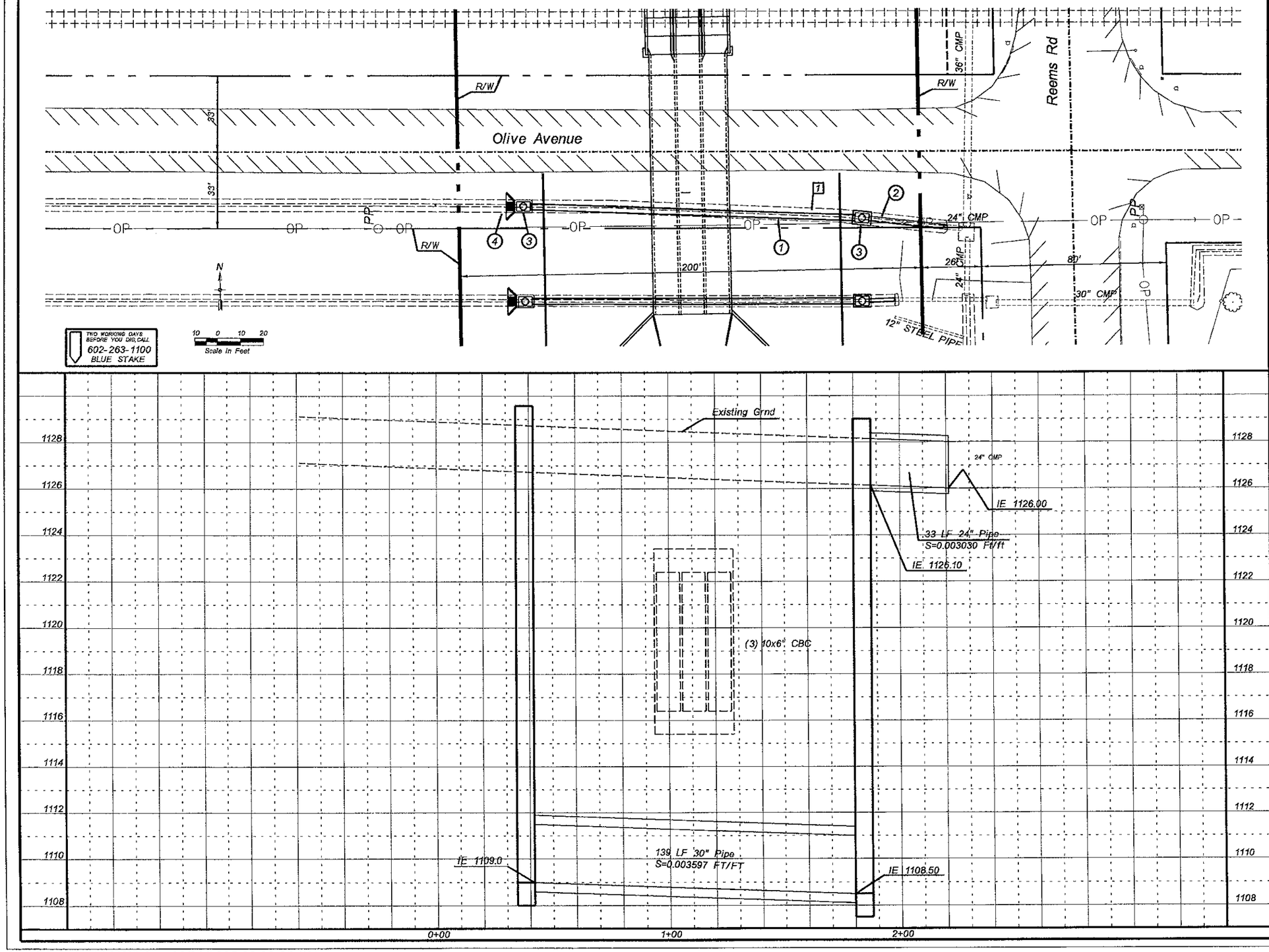
REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

		BY	DATE
PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	JRR	06/05
	DRAWN	FRC	06/05
	CHECKED	MAL	06/05

DRAWING NO.	PLAN AND PROFILE SHEET	SHEET OF
IR1	IRRIGATION SIPHON NO. 1	40

Sht28-IR1-JRR-TEST.dgn 06/23/2005 06:28:39 PM



REMOVE

1. REMOVE CONCRETE LINED DITCH (NPI) — 175 LF

CONSTRUCT

1. INSTALL 30" PIPE — 139 LF
2. INSTALL 24" PIPE — 33 LF
3. CONSTRUCT IRRIGATION SIPHON MANHOLE SEE DETAIL XX — 2 EA
4. CONSTRUCT CONCRETE LINED DITCH SEE DETAIL XX — 5 LF

SEE DRAWING C4 FOR CHANNEL CONSTRUCTION

SEE DRAWING B3 FOR CONCRETE BOX CULVERT CONSTRUCTION

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

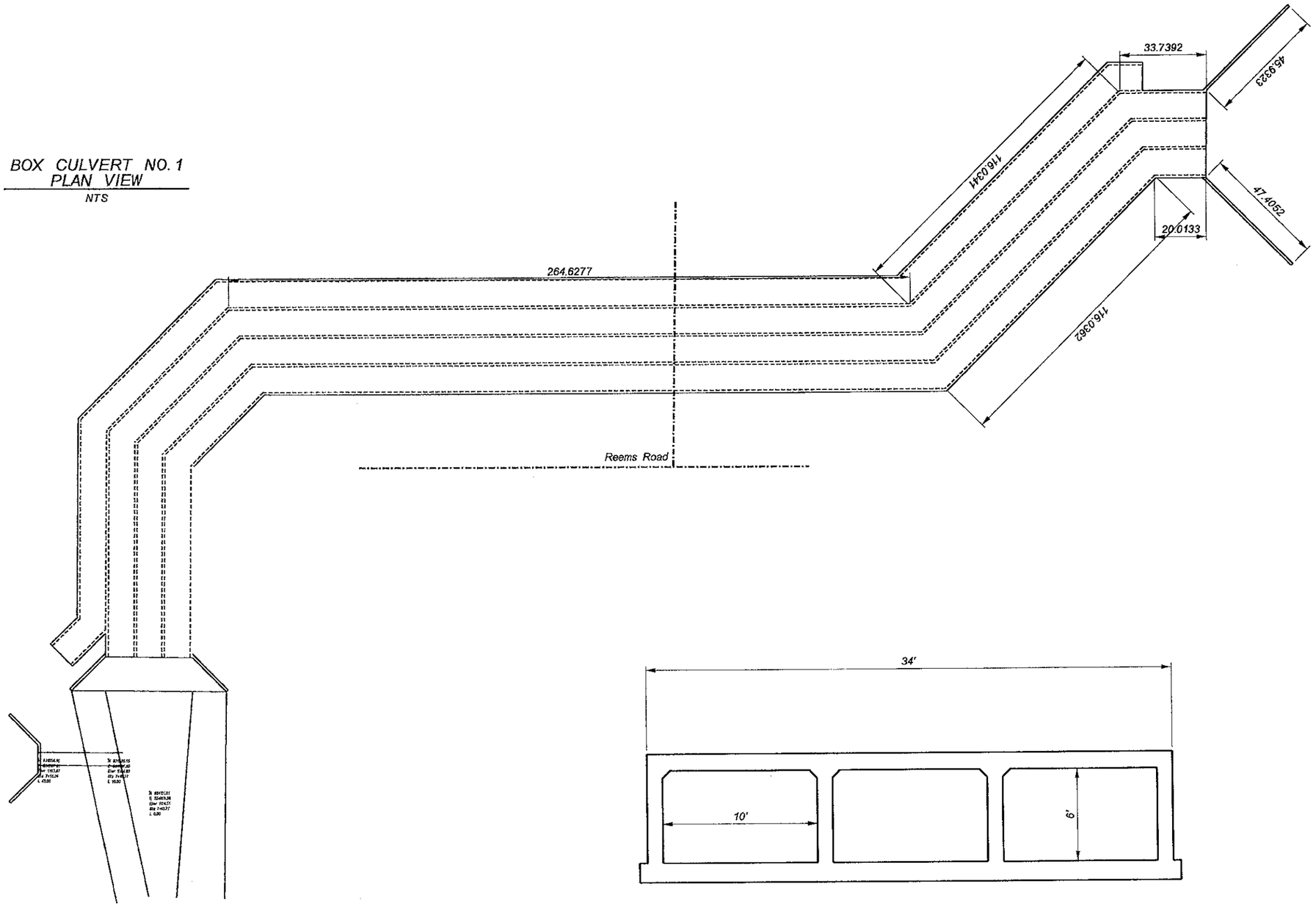
DRAWING NO. IR2

PLAN AND PROFILE SHEET IRRIGATION SIPHON NO. 2

SHEET OF 40

Sht29-IR2-JRR-TEST.dgn 06/23/2005 06:29:36 PM

BOX CULVERT NO. 1
PLAN VIEW
NTS



TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

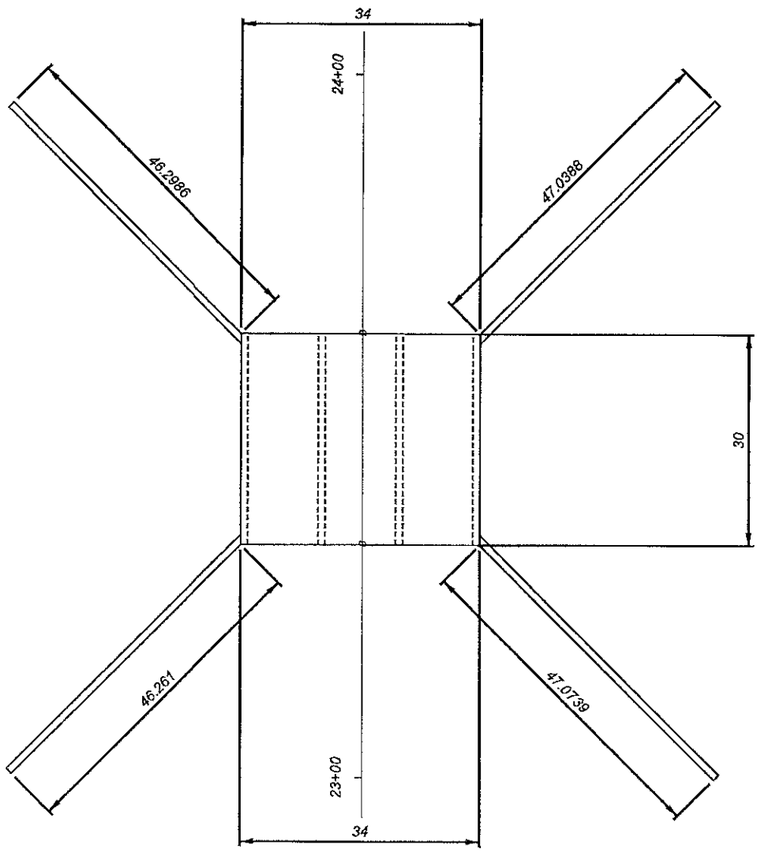
REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

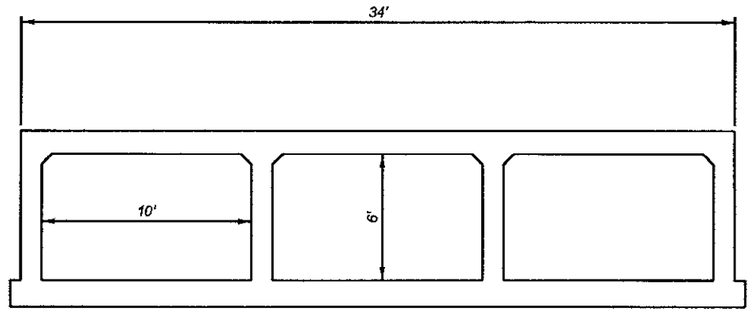
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING		BY	DATE
	DESIGNED	JRR	06/05
	DRAWN	FRC	06/05
	CHECKED	MAL	06/05

DRAWING NO. | SHEET OF 40

Sht30-B1.dgn 06/23/2005 06:32:00 PM



BOX CULVERT NO. 2
PLAN VIEW
NTS



60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

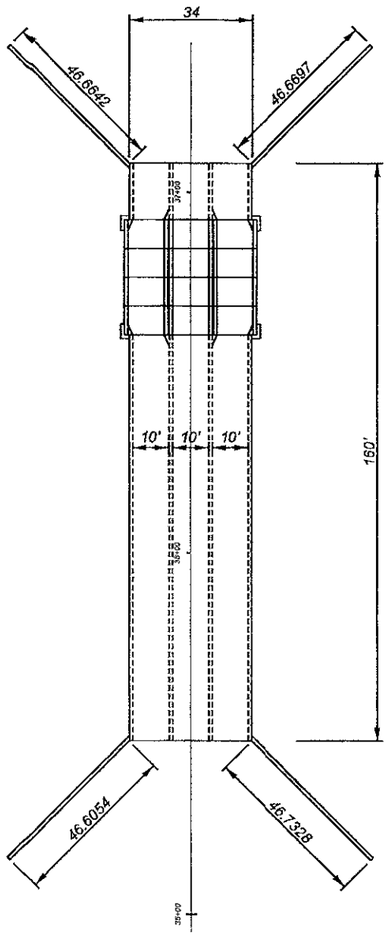
	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

DRAWING NO.		SHEET OF
B02	BOX CULVERT NO. 2 DETAILS	31 40

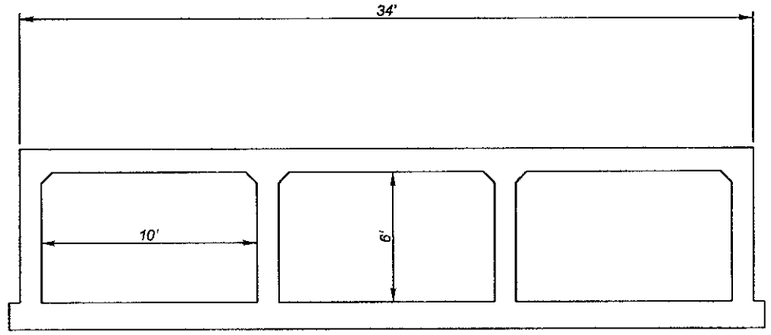
TWO WORKING DAYS
BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

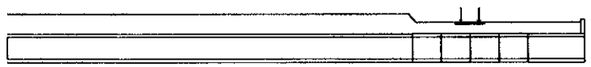
Sht31-B2.dgn 06/23/2005 06:40:54 PM



BOX CULVERT NO. 3
PLAN VIEW

NTS





60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

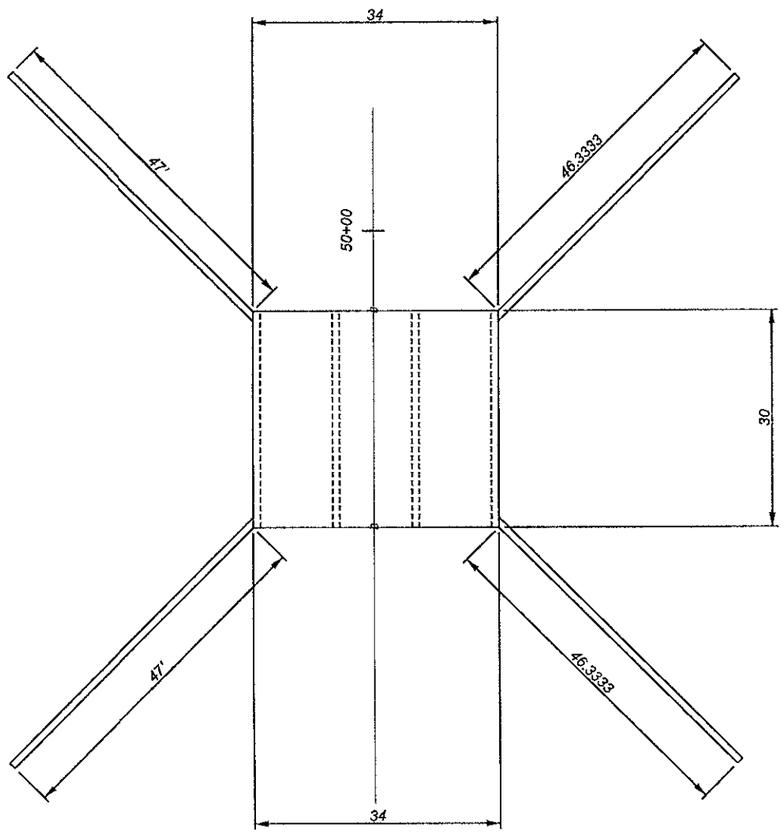
	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

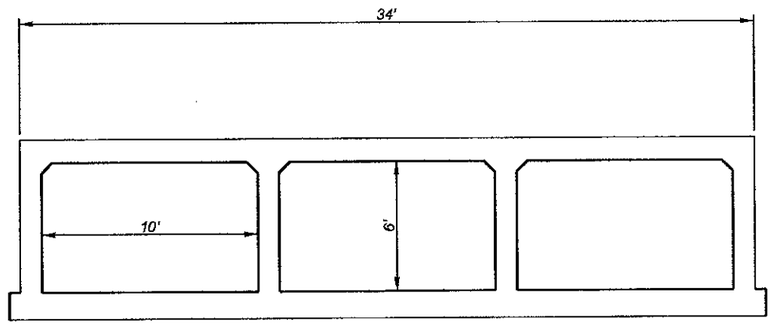
DRAWING NO.		SHEET OF
B3	BOX CULVERT NO. 3 DETAILS	40

TWO WORKING DAYS
BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

Sht32-B3.dgn 06/23/2005 06:41:44 PM



BOX CULVERT NO. 4
PLAN VIEW
NTS



60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	JRR	06/05
DRAWN	FRC	06/05
CHECKED	MAL	06/05

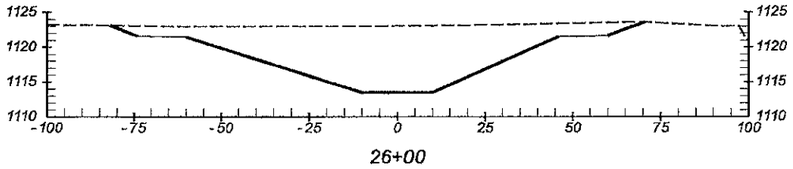
PRELIMINARY
NOT FOR
CONSTRUCTION
OR RECORDING

DRAWING NO.		SHEET OF
B04	BOX CULVERT NO. 4 DETAILS	40

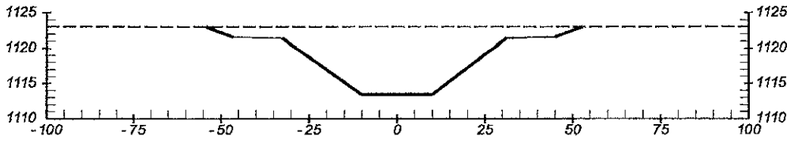
TWO WORKING DAYS
BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

Sht33-B4.dgn 06/23/2005 06:42:40 PM

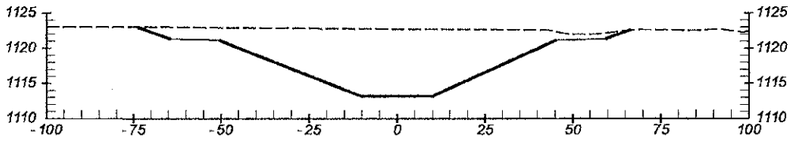
REEMS ROAD CHANNEL AND BASIN		DRAWING NO. XS1
DATE 06/05	CROSS SECTIONS SHEET	SHEET OF 40



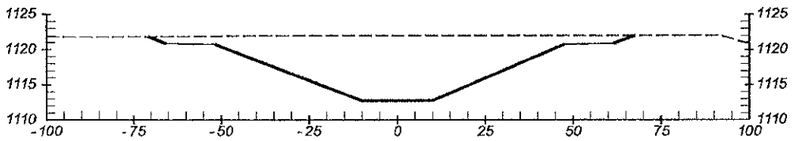
26+00



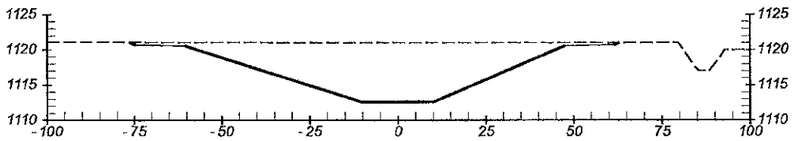
24+00



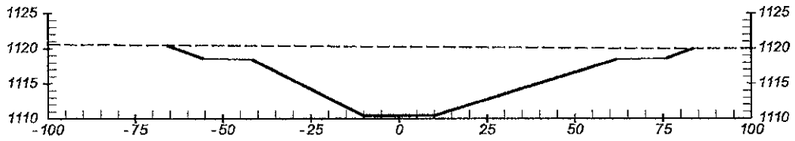
22+00



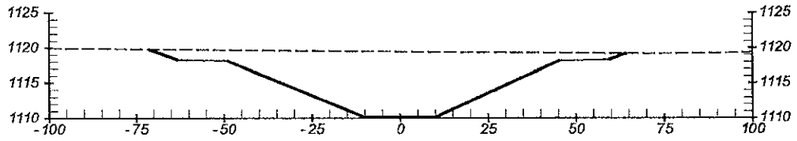
20+00



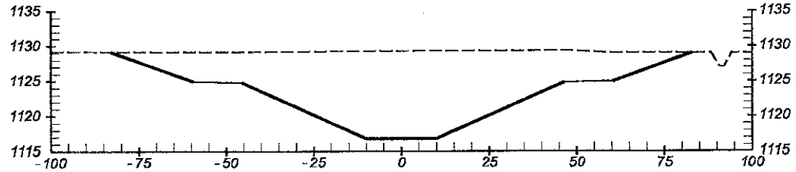
18+00



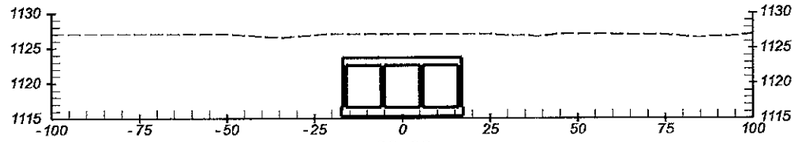
16+00



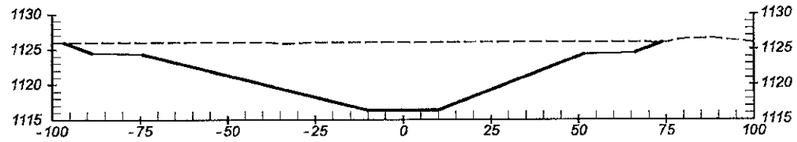
14+00



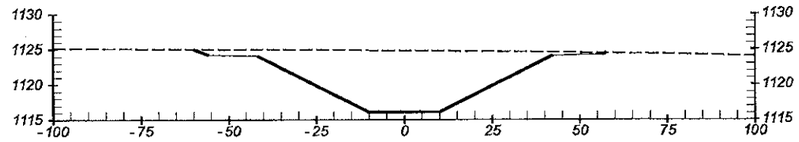
38+00



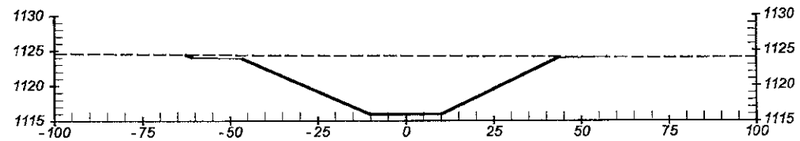
36+00



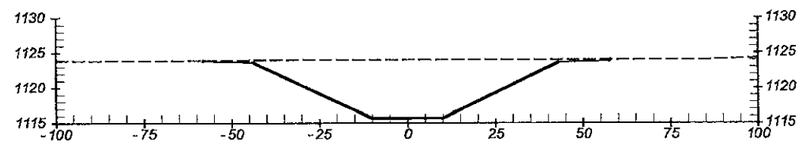
34+00



32+00



30+00

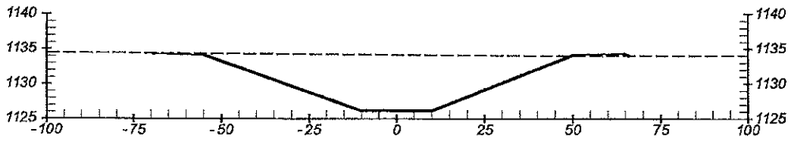


28+00

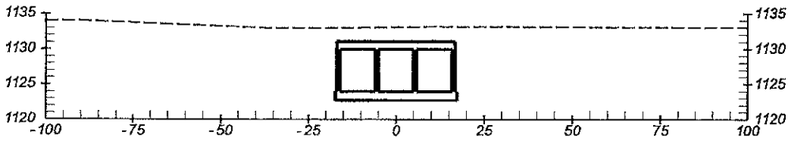
STA. 14+00 TO STA. 38+00

XSht1of3.dgn 06/28/2005 09:50:12 AM

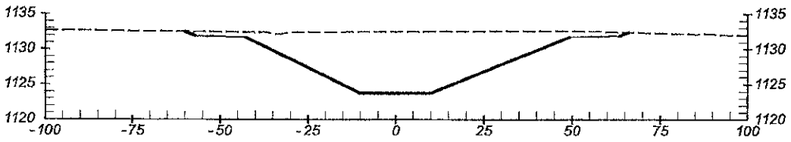
REEMS ROAD CHANNEL AND BASIN		DRAWING NO. XS2
DATE 06/05	CROSS SECTIONS SHEET	SHEET OF 40



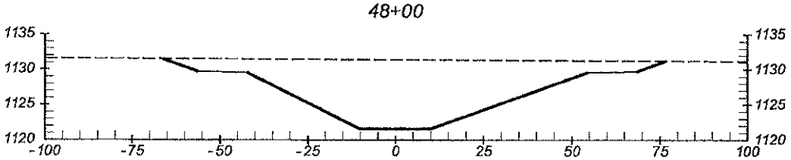
52+00



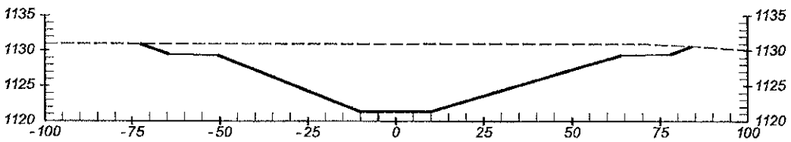
50+00



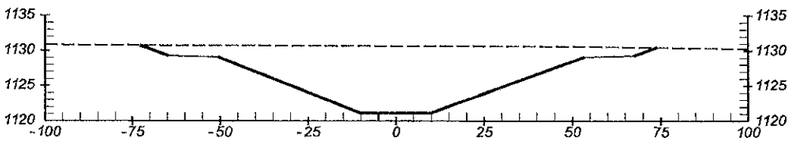
48+00



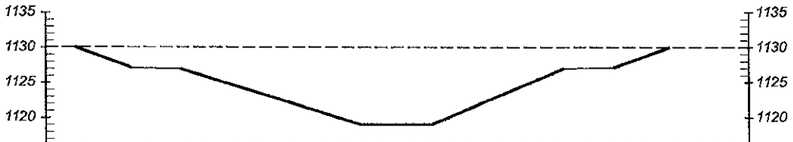
46+00



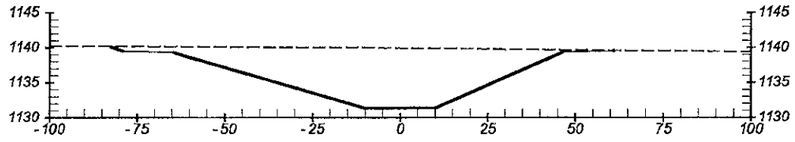
44+00



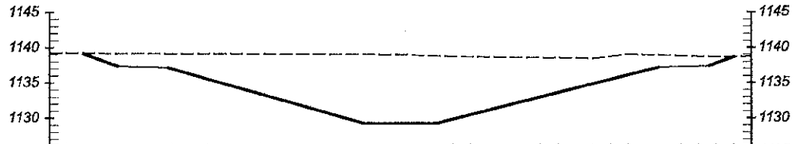
42+00



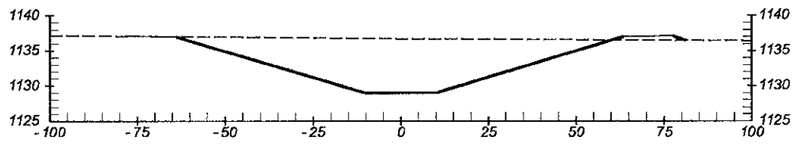
40+00



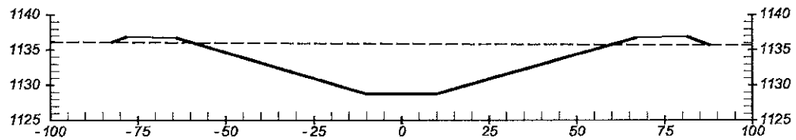
64+00



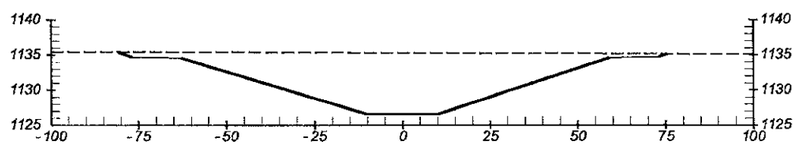
62+00



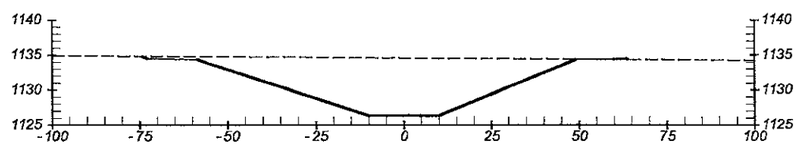
60+00



58+00



56+00

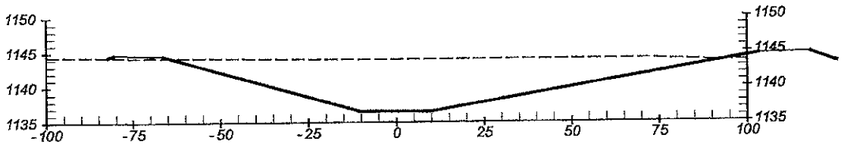


54+00

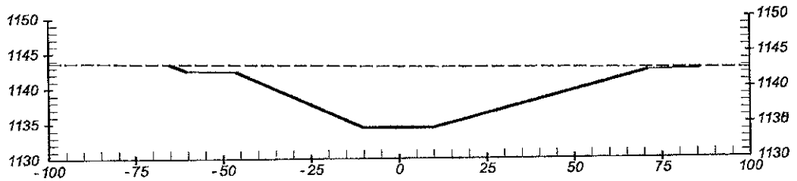
STA. 42+00 TO STA. 64+00

XSht2of3.dgn 06/28/2005 09:52:34 AM

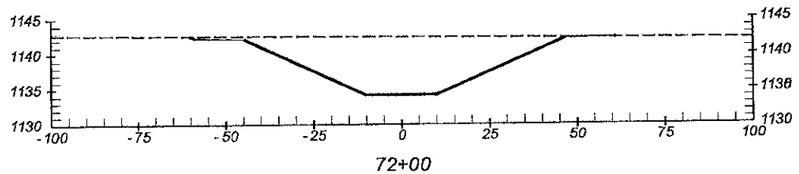
REEMS ROAD CHANNEL AND BASIN		DRAWING NO. XS3
DATE 05/05	CROSS SECTIONS SHEET	SHEET OF 40



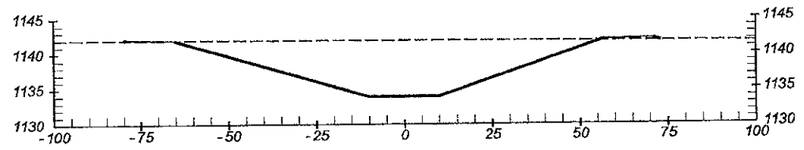
76+00



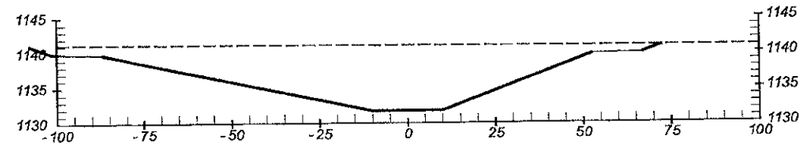
74+00



72+00



70+00



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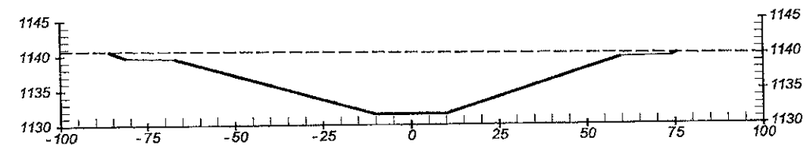

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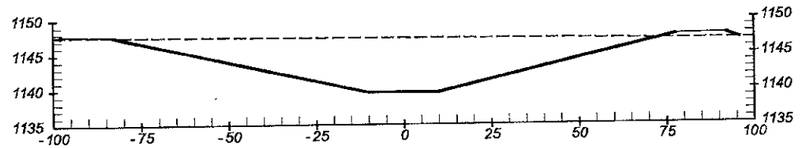

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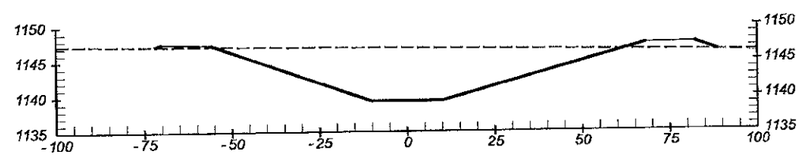

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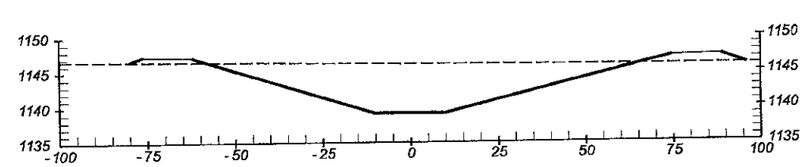

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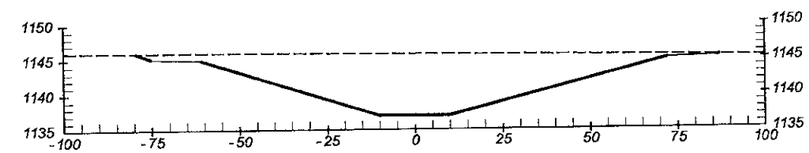

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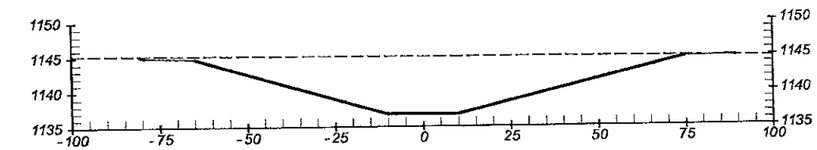

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STA. 66+00 TO STA. 88+61

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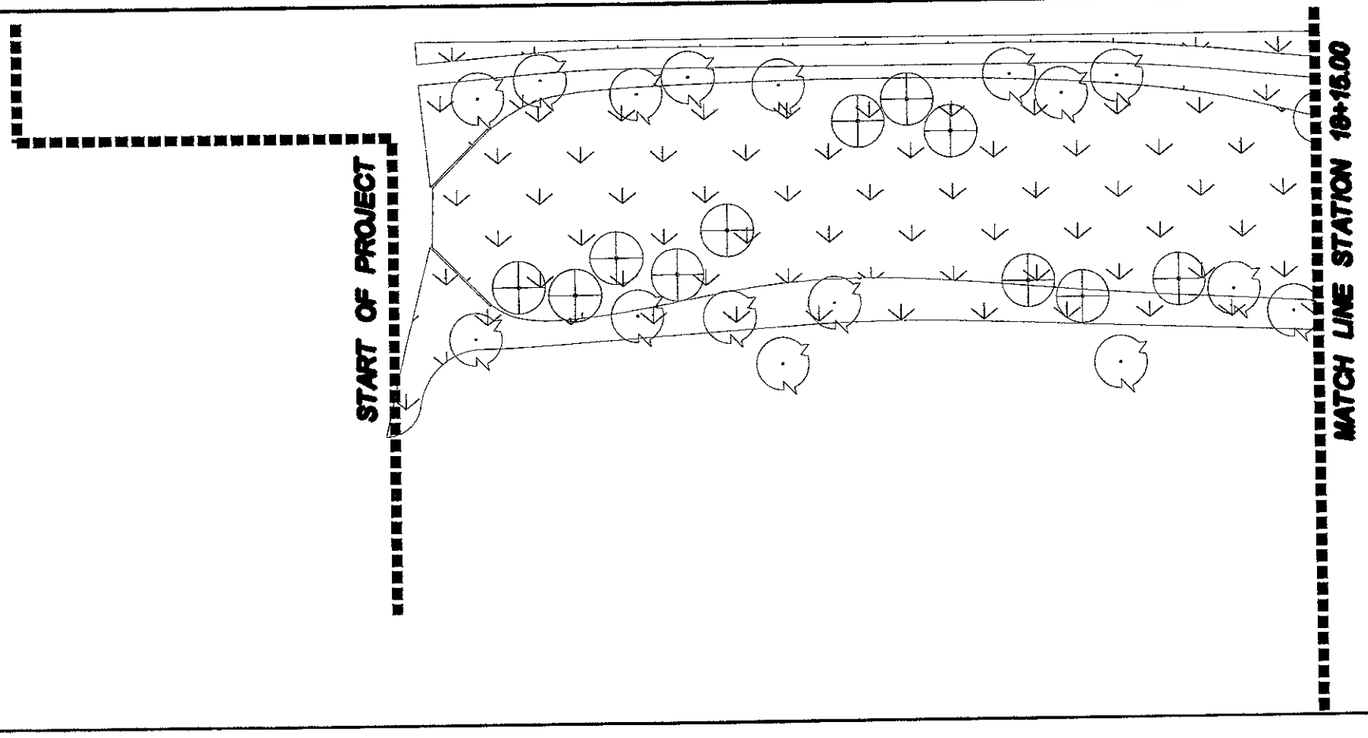
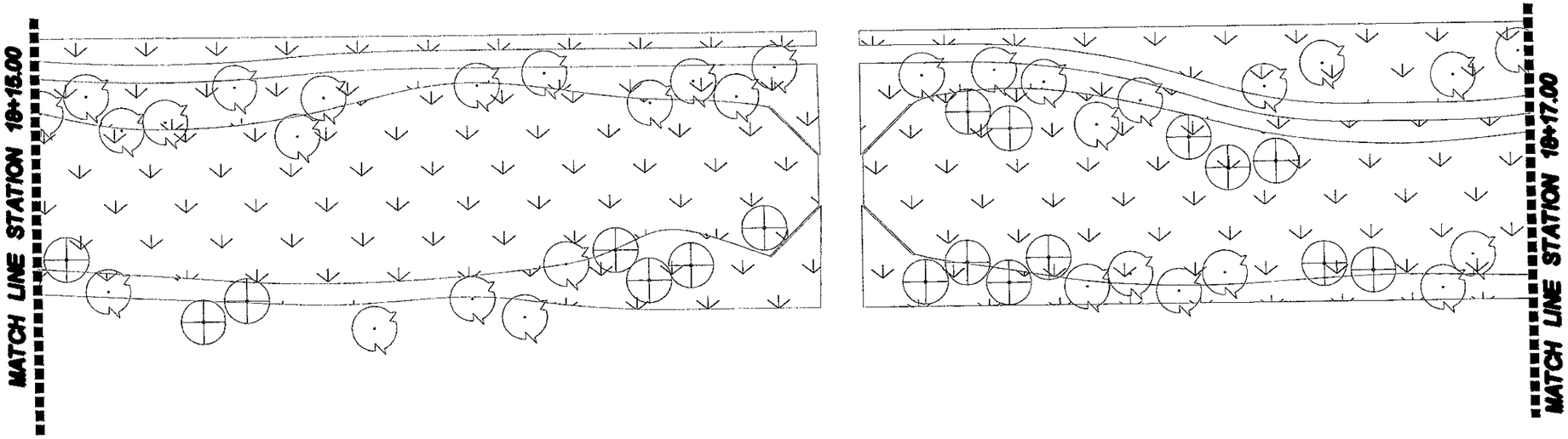




REMOVE

CONSTRUCT

SYM.	ABV.	QTY.
Trees:		
	CF	-
	CM	-
	OT	-
	PJ	-

Notes:
1. Refer to

SYMBOL	MATERIAL	QTY (This sht)
	HYDROSEEDING**	SQ. YDS.

** = See Special Provisions for seed mix.

20 0 20 40
Scale In Feet

N

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

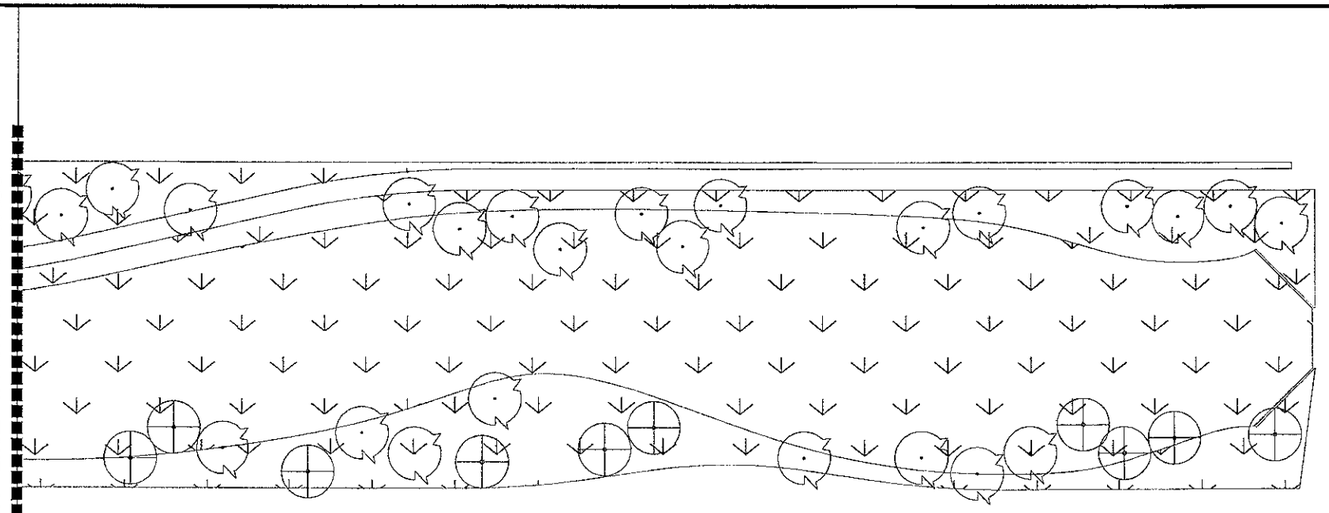
		BY	DATE
PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	SH	6/24
	DRAWN	BSM	6/24
	CHECKED	SH	6/24

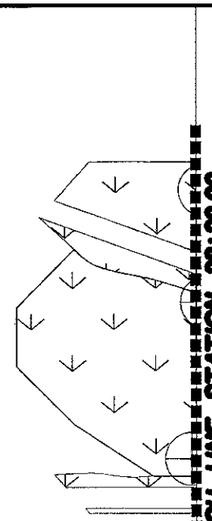
DRAWING NO. CXX

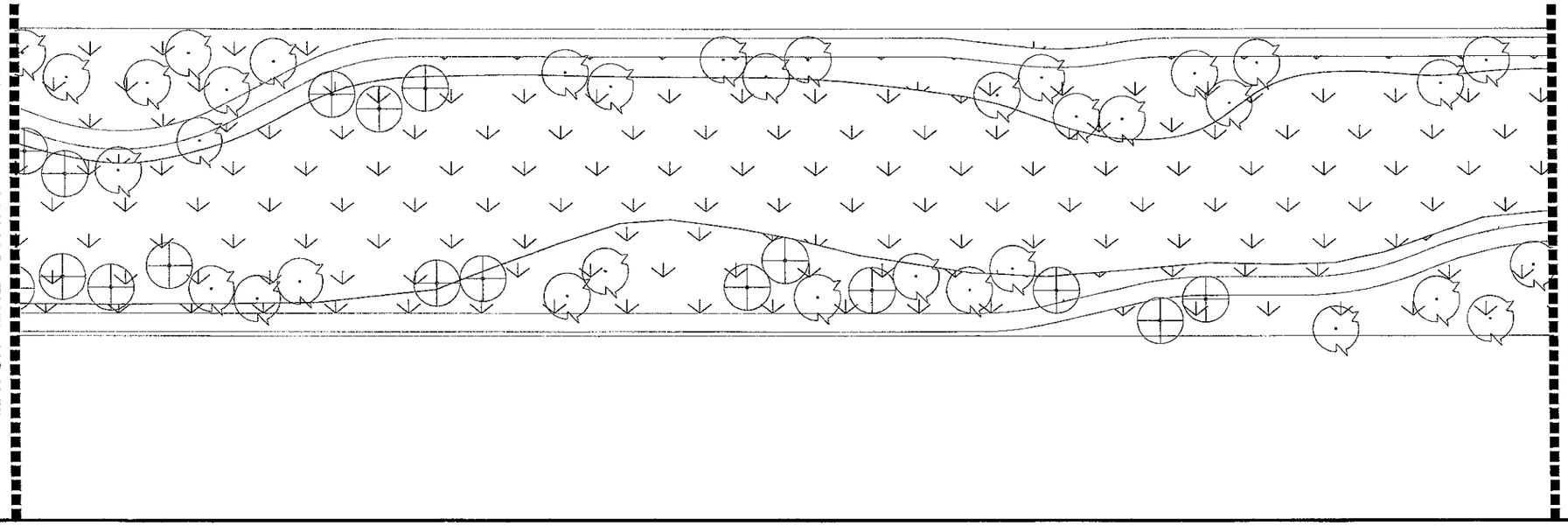
LANDSCAPE AND SEEDING

SHEET OF

LP01.dgn 06/27/2005 11:25:22 AM







☐ REMOVE

○ CONSTRUCT

SYM.	ABV.	QTY.
Trees:		
	CF	-
	CM	-
	OT	-
	PJ	-

Notes:
1. Refer to

SYMBOL	MATERIAL	QTY (This sht)
	HYDROSEEDING**	..a... SQ. YDS.

** = See Special Provisions for seed mix.

20 0 20 40
Scale in Feet

N

TWO WORKING DAYS BEFORE YOU DIG CALL
602-263-1100
BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

PRELIMINARY
NOT FOR
CONSTRUCTION

DRAWING NO.
CXX

LANDSCAPE AND SEEDING

SHEET OF
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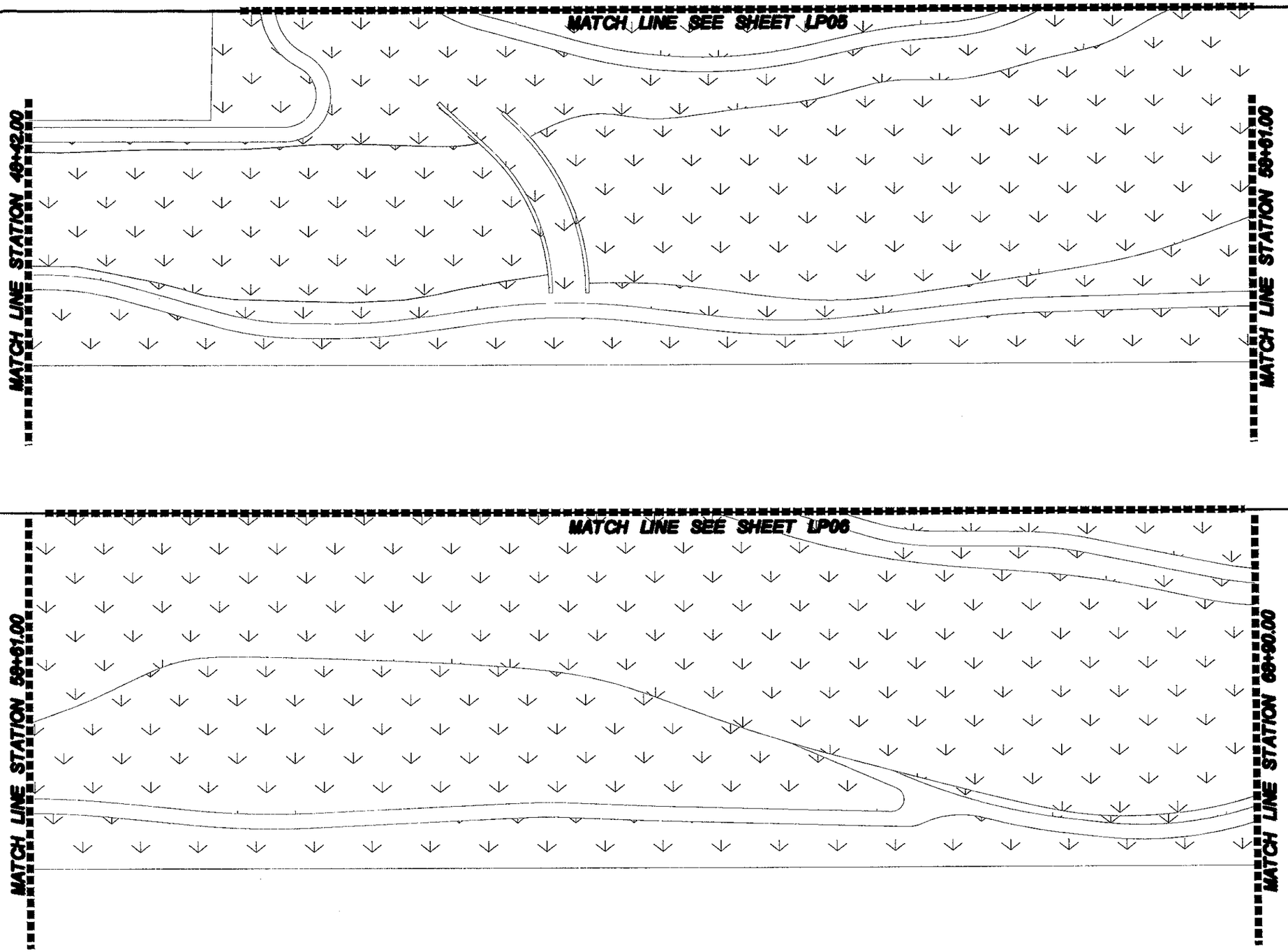
LP02.dgn 06/27/2005 11:27:01 AM



REMOVE

CONSTRUCT

SYM.	ABV.	QTY.
Trees:		
	CF	-
	CM	-
	OT	-
	PJ	-

Notes:

1. Refer to

SYMBOL	MATERIAL	QTY (This sht)
	HYDROSEEDING**	... SQ. YDS.

** = See Special Provisions for seed mix.

20 0 20 40
Scale In Feet

N

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

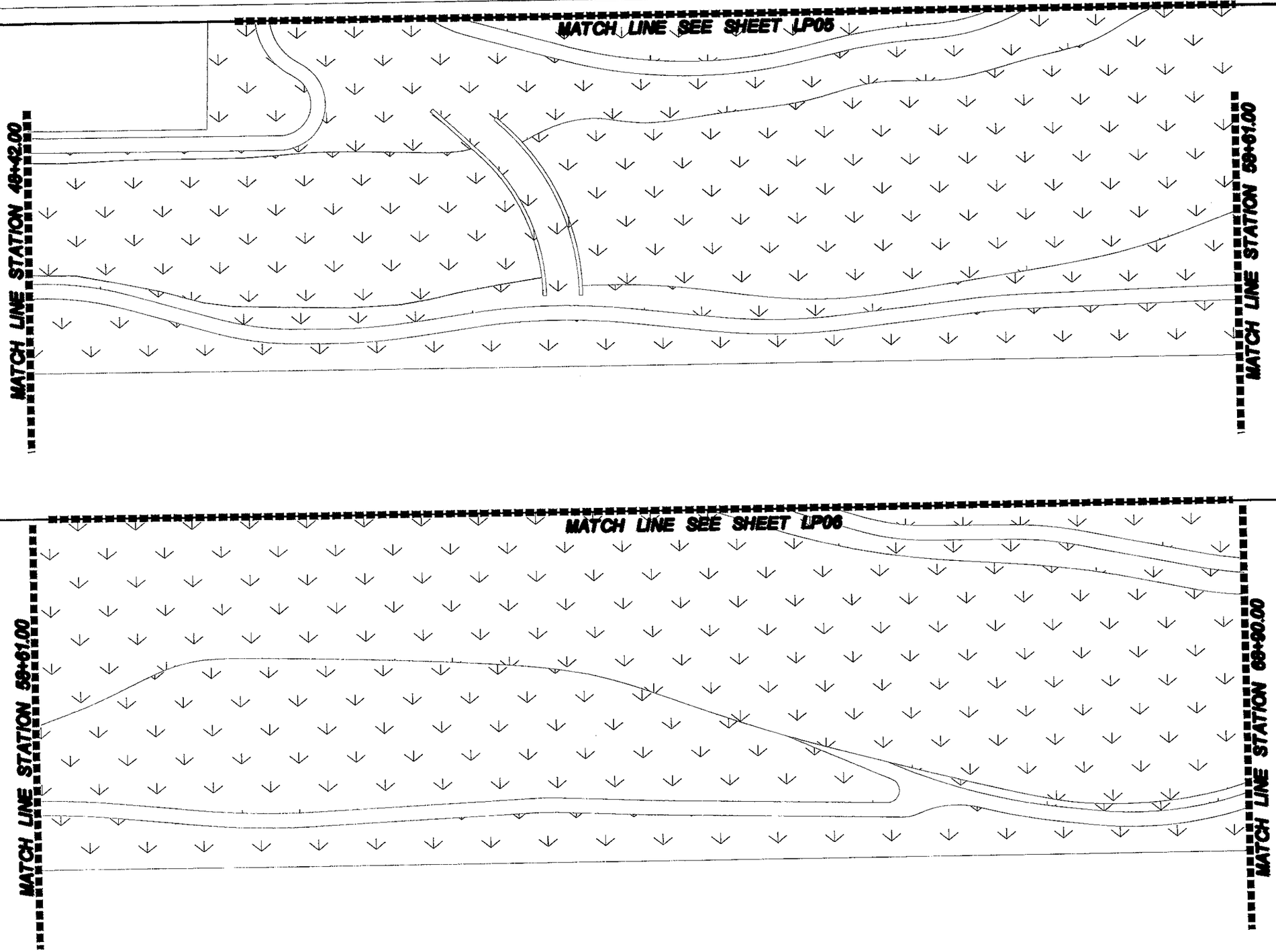
REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

		BY	DATE
PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	SH	6/24
	DRAWN	BSM	6/24
	CHECKED	SH	6/24

DRAWING NO.		SHEET OF
CXX	LANDSCAPE AND SEEDING	-

LP03.dgn 06/27/2005 11:29:13 AM



REMOVE

CONSTRUCT

SYM.	ABV.	QTY.
Trees:		
	CF	-
	CM	-
	OT	-
	PJ	-

Notes:
1. Refer to

SYMBOL	MATERIAL	QTY (This sht)
	HYDROSEEDING**	..s... SQ. YDS.

** = See Special Provisions for seed mix.

20 0 20 40
Scale in Feet

N

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

DRAWING NO. CXX

LANDSCAPE AND SEEDING

SHEET OF ..

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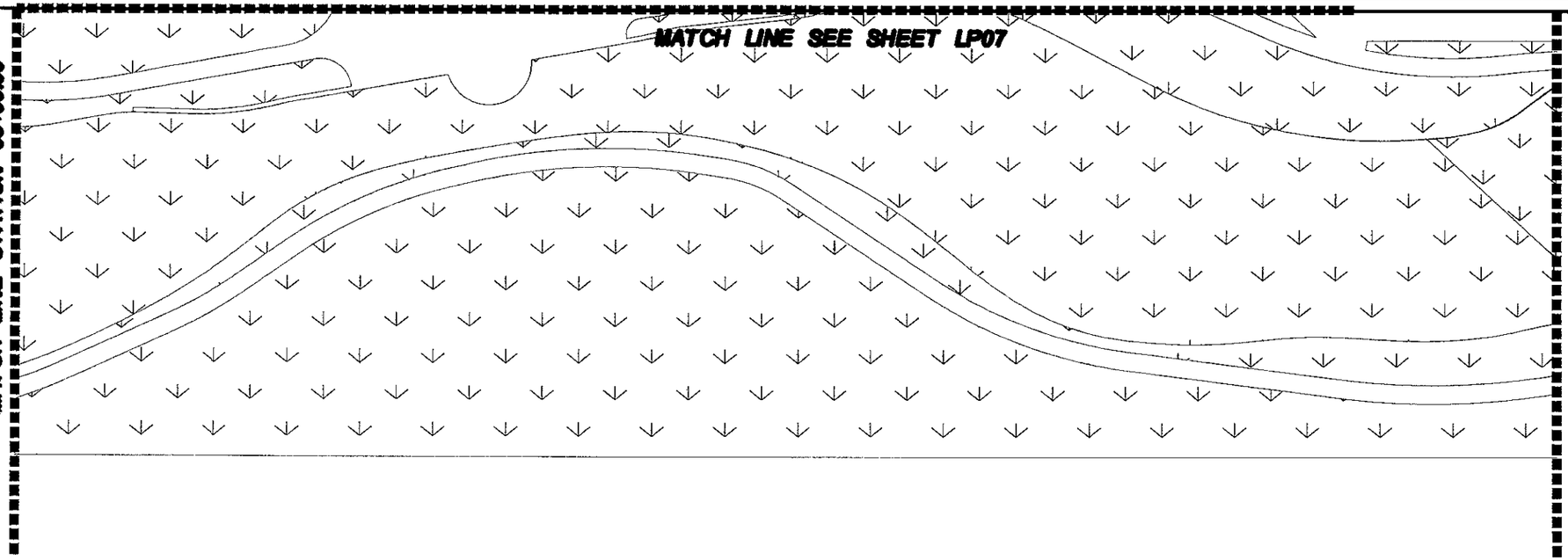

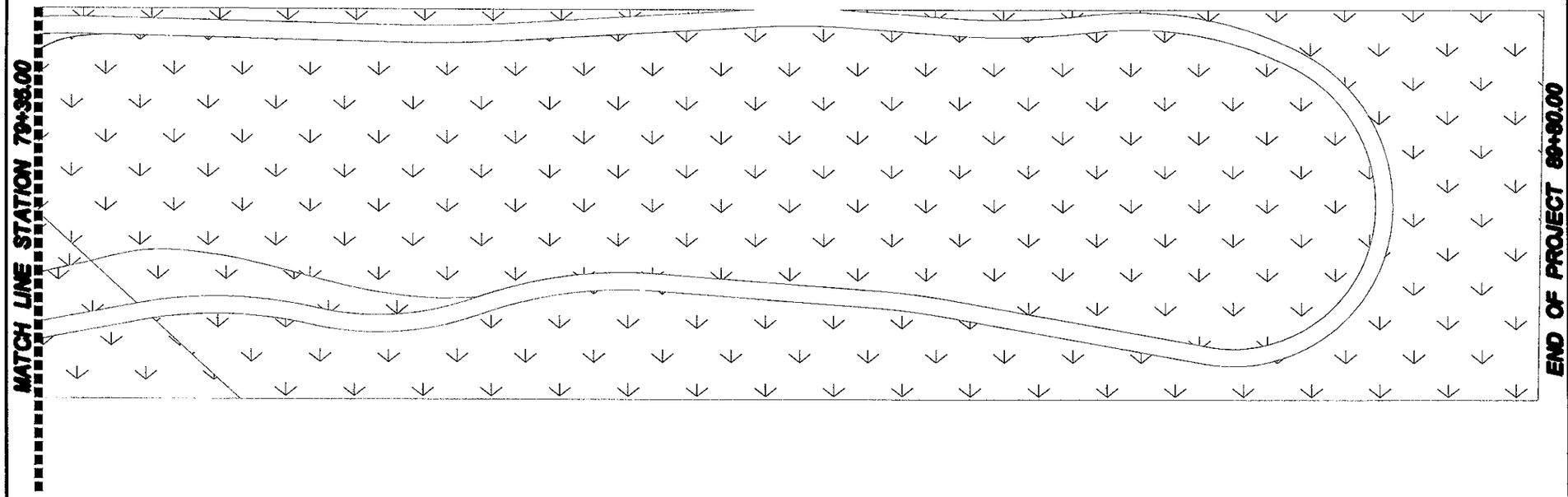

REMOVE

CONSTRUCT

SYM.	ABV.	QTY.
Trees:		
	CF	-
	CM	-
	OT	-
	PJ	-

Notes:

1. Refer to

SYMBOL	MATERIAL	QTY (This sht)
	HYDROSEEDING**	... SQ. YDS.

** = See Special Provisions for seed mix.

20 0 20 40
Scale in Feet

N

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

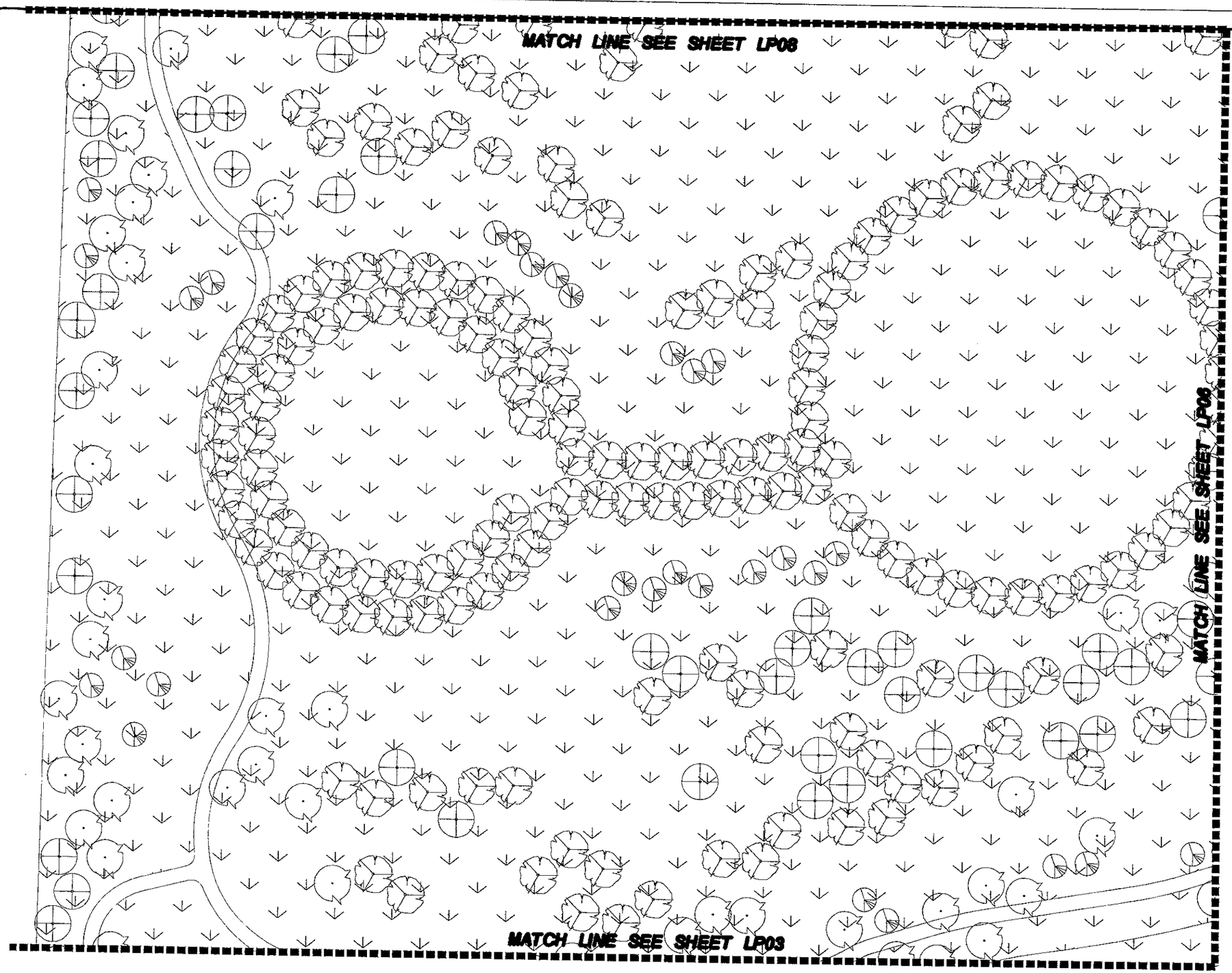
REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

		BY	DATE
PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	SH	6/24
	DRAWN	BSM	6/24
	CHECKED	SH	6/24

DRAWING NO.		SHEET OF
CXX	LANDSCAPE AND SEEDING	-

LP04.dgn 06/27/2005 11:31:24 AM



REMOVE

CONSTRUCT

SYM.	ABV.	QTY.
Trees:		
	CF	-
	CM	-
	OT	-
	PJ	-

Notes:

1. Refer to

SYMBOL	MATERIAL	QTY (This sht)
	HYDROSEEDING**	SQ. YDS.

** = See Special Provisions for seed mix.

20 0 20 40
Scale in Feet

N

TWO WORKING DAYS BEFORE YOU DIG/CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

PRELIMINARY NOT FOR CONSTRUCTION

DRAWING NO. CXX

LANDSCAPE AND SEEDING

SHEET OF

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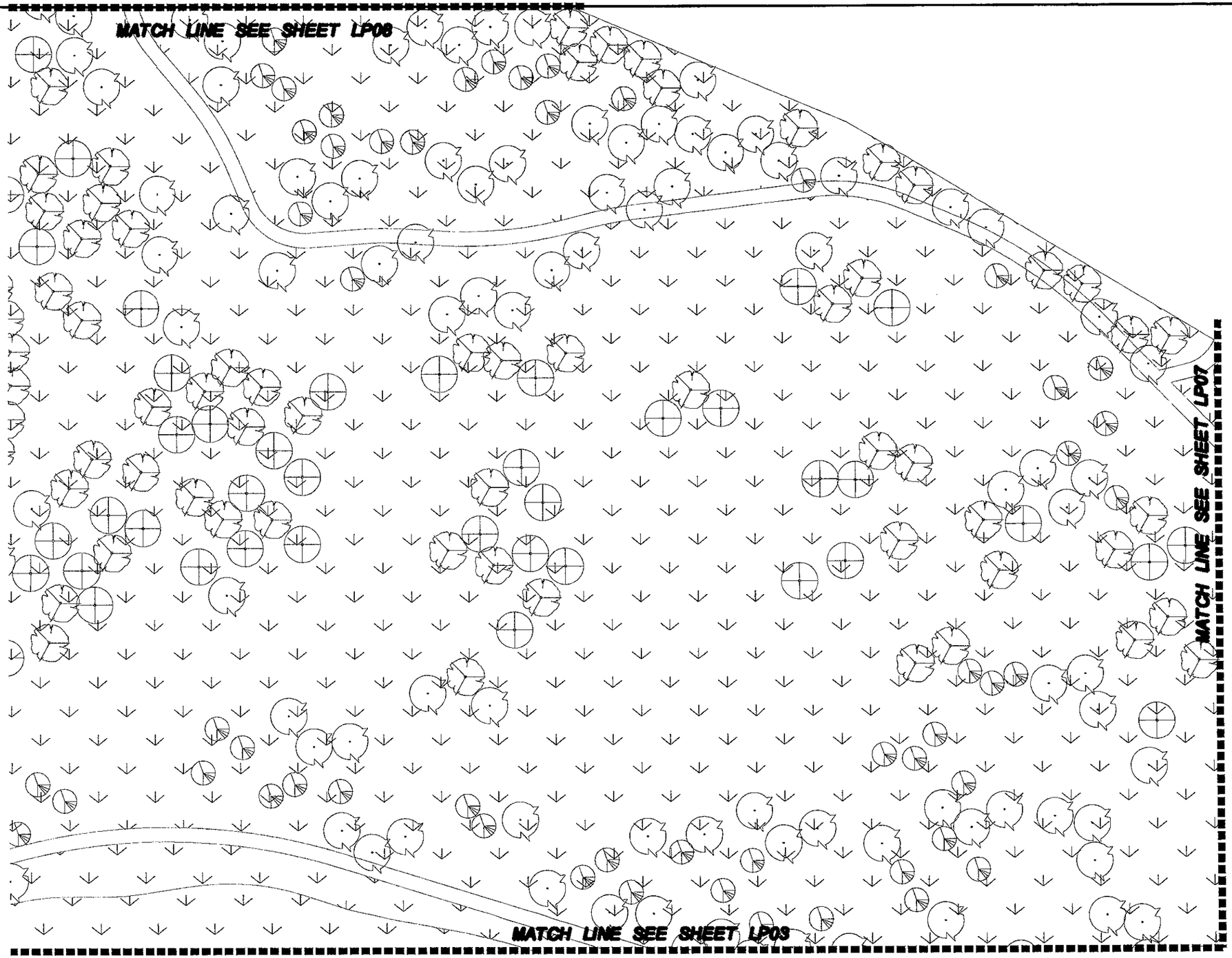

REMOVE

CONSTRUCT

SYM.	ABV.	QTY.
Trees:		
	CF	-
	CM	-
	OT	-
	PJ	-

Notes:

1. Refer to

SYMBOL	MATERIAL	QTY (This sht)
	HYDROSEEDING**	SQ. YDS.

** = See Special Provisions for seed mix.

20 0 20 40
Scale in Feet

N

60% SUBMITTAL

TWO WORKING DAYS BEFORE YOU DRILL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

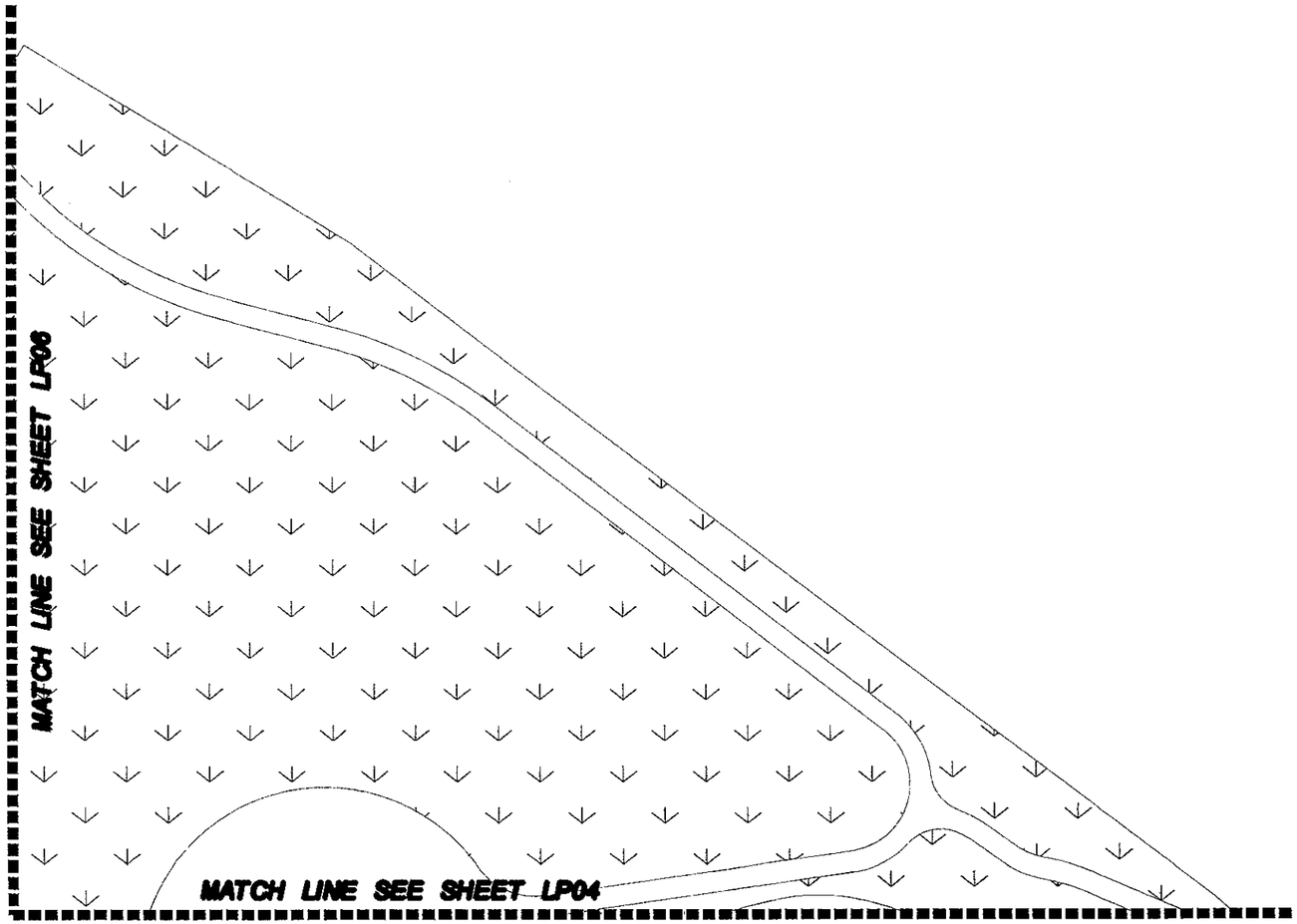
FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

PRELIMINARY
NOT FOR
CONSTRUCTION

DRAWING NO.		SHEET OF
CXX	LANDSCAPE AND SEEDING	-

LP06.dgn 06/27/2005 03:47:24 PM



☐ REMOVE ☐

○ CONSTRUCT ○

SYM.	ABV.	QTY.
Trees:		
	CF	-
	CM	-
	OT	-
	PJ	-

Notes:
1. Refer to

SYMBOL	MATERIAL	QTY (This sht)
	HYDROSEEDING**	SQ. YDS.

** = See Special Provisions for seed mix.

20 0 20 40
Scale In Feet

N

TWO WORKING DAYS BEFORE YOU DRILL
602-263-1100
BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

PRELIMINARY
NOT FOR
CONSTRUCTION

DRAWING NO. CXX | LANDSCAPE AND SEEDING | SHEET OF

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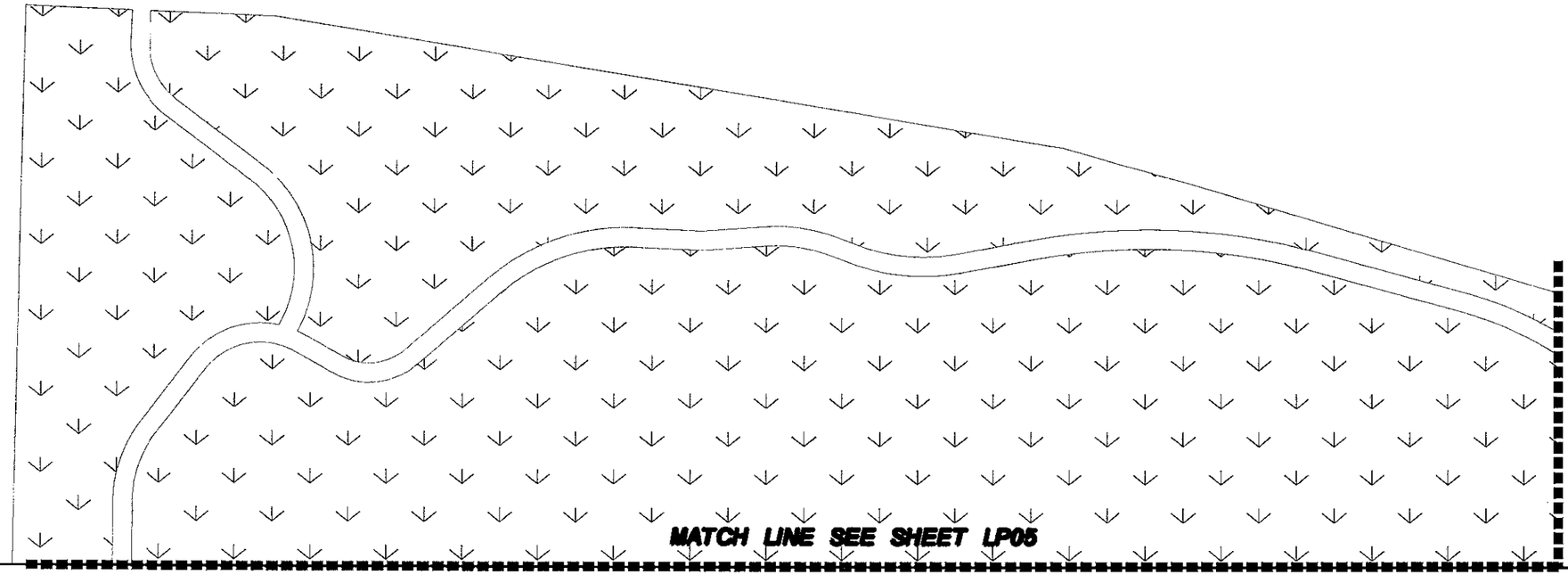

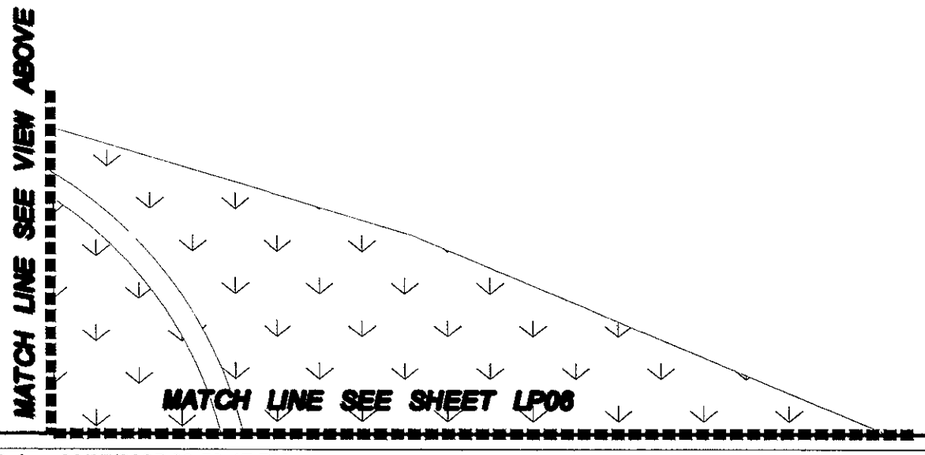

☐ REMOVE ☐

○ CONSTRUCT ○

SYM.	ABV.	QTY.
Trees:		
	CF	-
	CM	-
	OT	-
	PJ	-

Notes:
1. Refer to

SYMBOL	MATERIAL	QTY (This sht)
	HYDROSEEDING**	...... SQ. YDS.

** = See Special Provisions for seed mix.

20 0 20 40
Scale In Feet

N

TWO WORKING DAYS BEFORE YOU DIG CALL
602-263-1100
BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

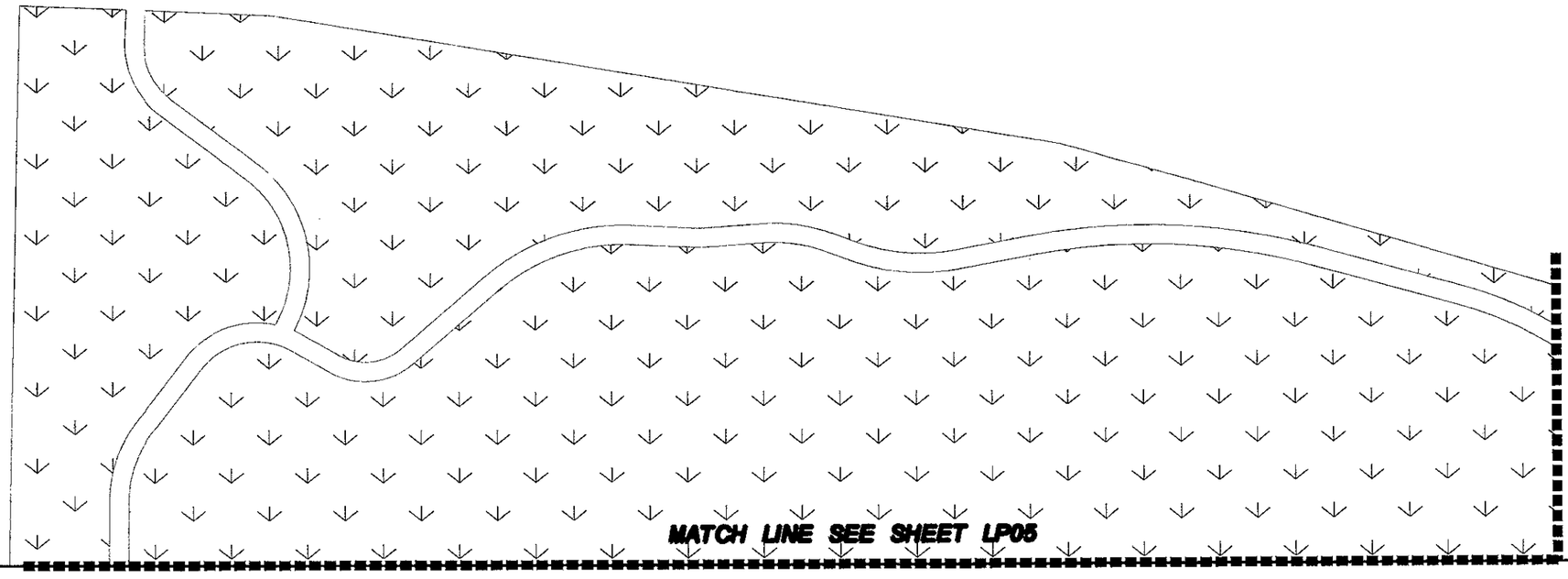
FCD PROJECT NO. 470-12-31

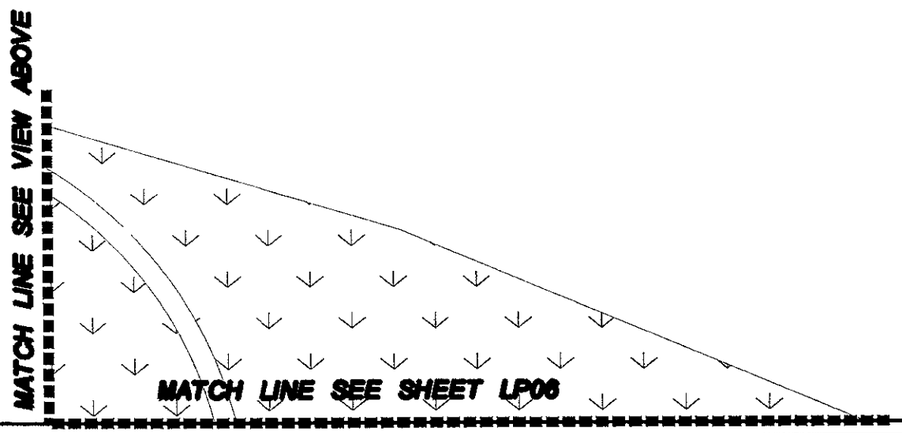
	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

PRELIMINARY
NOT FOR
CONSTRUCTION

DRAWING NO.		SHEET OF
CXX	LANDSCAPE AND SEEDING	-

LP08.dgn 06/27/2005 03:50:47 PM





REMOVE

CONSTRUCT

SYM.	ABV.	QTY.
Trees:		
	CF	-
	CM	-
	OT	-
	PJ	-

Notes:
1. Refer to

SYMBOL	MATERIAL	QTY (This sht)
	HYDROSEEDING**	...... SQ. YDS.

** = See Special Provisions for seed mix.

20 0 20 40
Scale in Feet

N

TWO WORKING DAYS BEFORE YOU DIG/DRILL
602-263-1100
BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
2			
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

PRELIMINARY
NOT FOR
CONSTRUCTION

DRAWING NO.
CXX

LANDSCAPE AND SEEDING

SHEET OF
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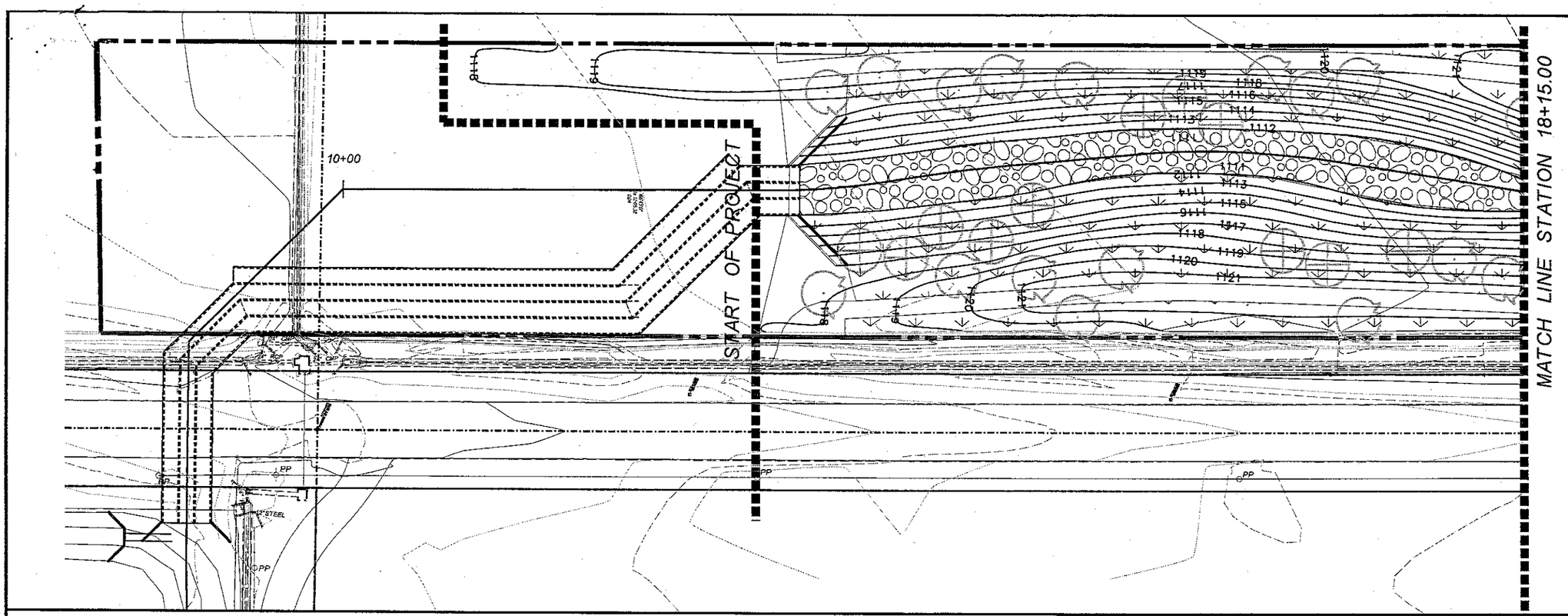

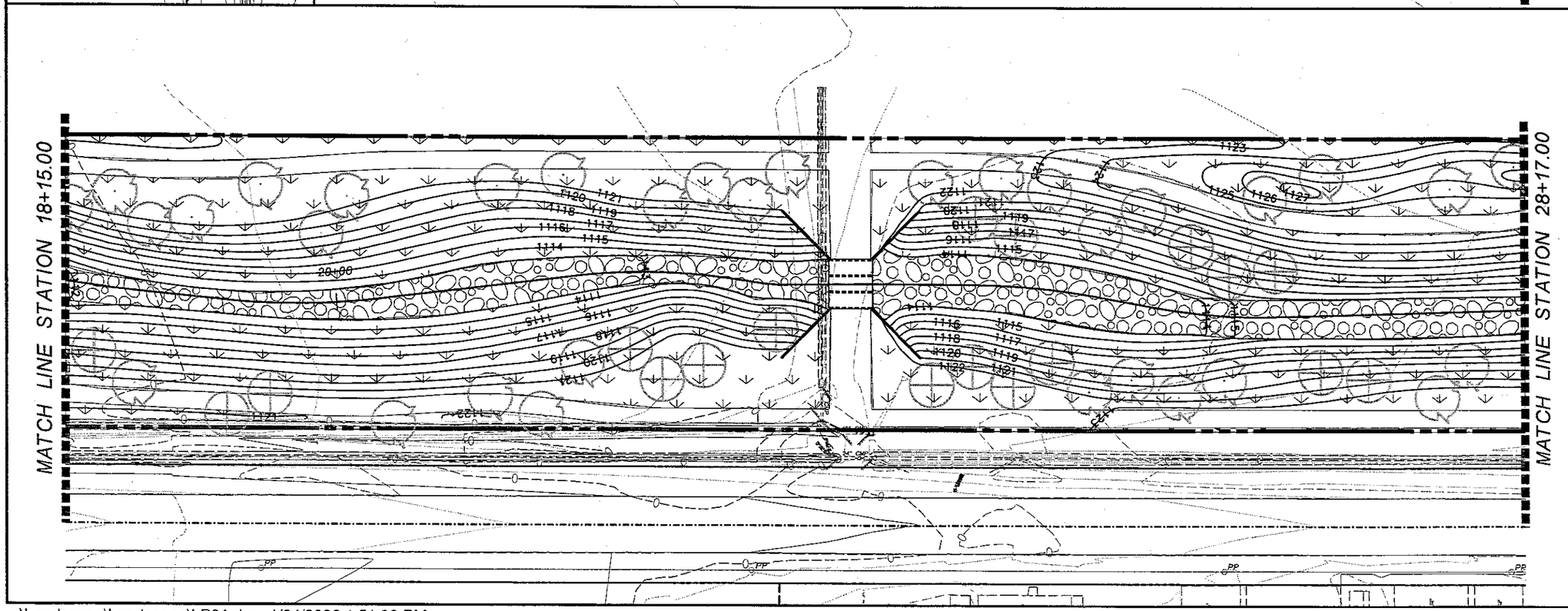

☐ REMOVE ☐

○ CONSTRUCT ○

Tree Planting Not In Contract

SYM.	ABV.	QTY.	
Trees:			
	CF	49	*Blue Palo Verde (NIC) (Cercidium floridum)*
	CM	-	*Foothills Palo Verde (NIC) (Cercidium microphyllum)*
	OT	29	*Ironwood (NIC) (Olneya tesota)*
	PJ	-	*Pink Native Mesquite (NIC) (Prosopis juliflora)*

Notes:

SYMBOL	MATERIAL	QTY (This sht)
	6" MIN.-8" MAX. SCREENED RIVER ROCK	4,782 SQ. YDS.
	SEED MIX FOR SIDE SLOPES & TOPS OF BASIN/ CHANNEL	23,579 SQ. YDS.

20 0 20 40
Scale in Feet

N

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

		BY	DATE
PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	SH	6/24
	DRAWN	BSM	6/24
	CHECKED	SH	6/24

DRAWING NO.		SHEET OF
LP01	LANDSCAPE AND SEEDING	-

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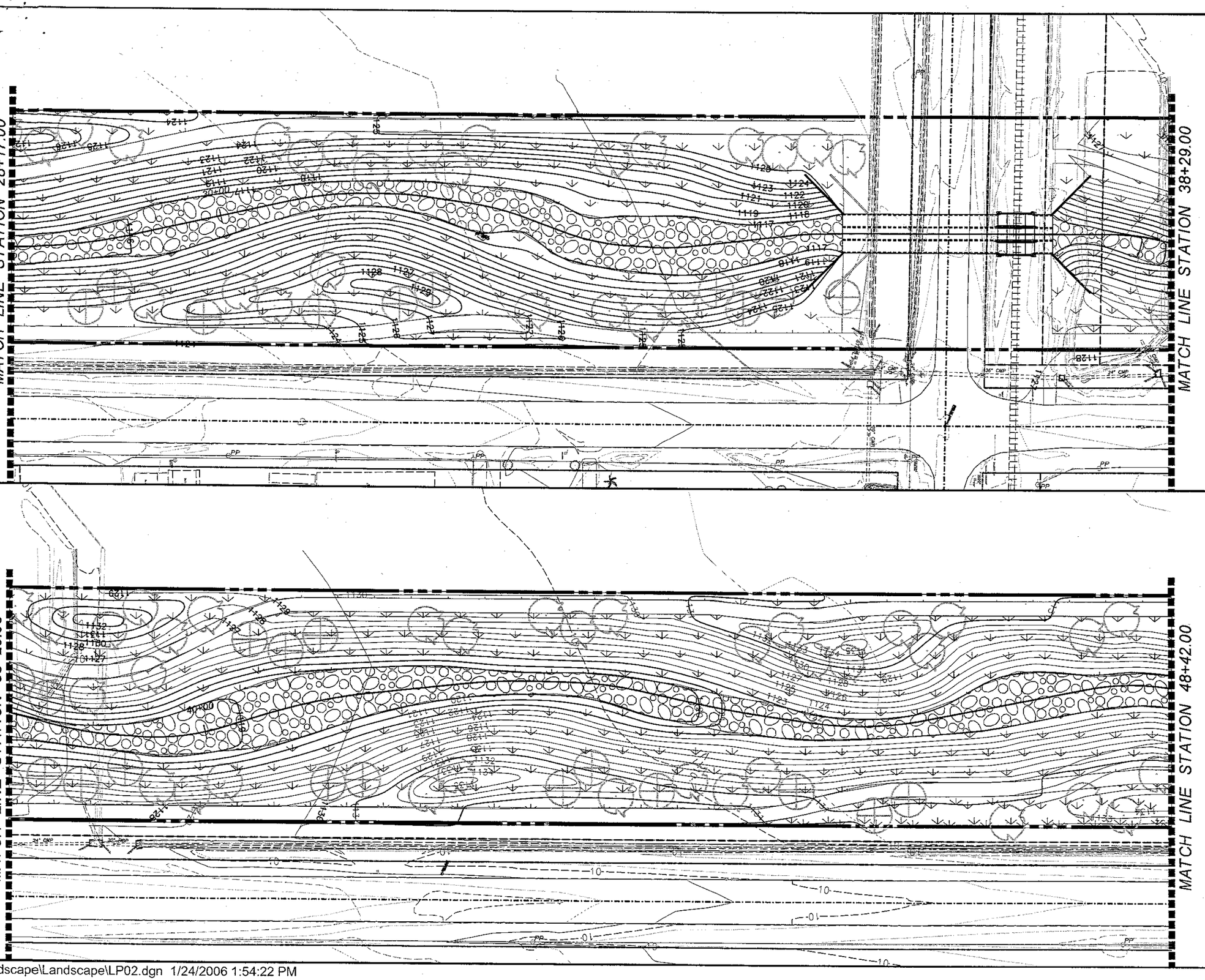

☐ REMOVE ☐

○ CONSTRUCT ○

Tree Planting Not In Contract

SYM.	ABV.	QTY.	
Trees:			
	CF	59	*Blue Palo Verde (NIC) (Cercidium floridum)*
	CM	-	*Foothills Palo Verde (NIC) (Cercidium microphyllum)*
	OT	27	*Ironwood (NIC) (Olneya tesota)*
	PJ	-	*Pink Native Mesquite (NIC) (Prosopis juliflora)*

Notes:

SYMBOL	MATERIAL	QTY (This sht)
	6" MIN.-8" MAX. SCREENED RIVER ROCK	6,310 SQ. YDS.
	SEED MIX FOR SIDE SLOPES & TOPS OF BASIN/ CHANNEL	29,253 SQ. YDS.

20 0 20 40
Scale in Feet

N

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

PRELIMINARY NOT FOR CONSTRUCTION

DRAWING NO.		SHEET OF
LP02	LANDSCAPE AND SEEDING	-

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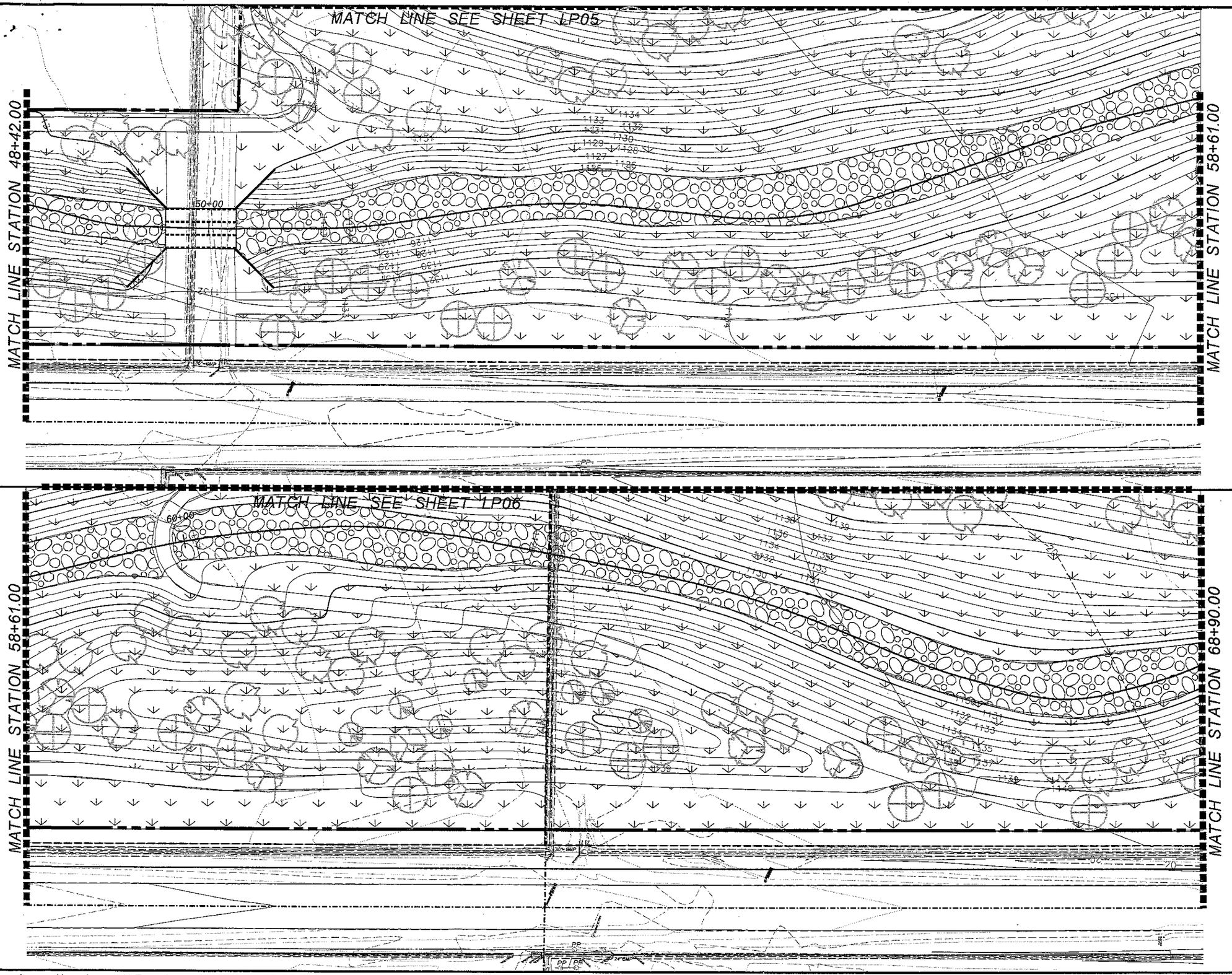

REMOVE

CONSTRUCT

Tree Planting Not In Contract

SYM.	ABV.	QTY.	
Trees:			
	CF	55	*Blue Palo Verde (NIC) (Cercidium floridum)*
	CM	7	*Foothills Palo Verde (NIC) (Cercidium microphyllum)*
	OT	40	*Ironwood (NIC) (Olneya tesota)*
	PJ	23	*Pink Native Mesquite (NIC) (Prosopis juliflora)*

Notes:

SYMBOL	MATERIAL	QTY (This sht)
	6" MIN.- 8" MAX. SCREENED RIVER ROCK	8,887 SQ. YDS.
	SEED MIX FOR SIDE SLOPES & TOPS OF BASIN/ CHANNEL	47,540 SQ. YDS.

20 0 20 40
Scale in Feet

N

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

		BY	DATE
PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	SH	6/24
	DRAWN	BSM	6/24
	CHECKED	SH	6/24

DRAWING NO.		SHEET OF
LP03	LANDSCAPE AND SEEDING	--

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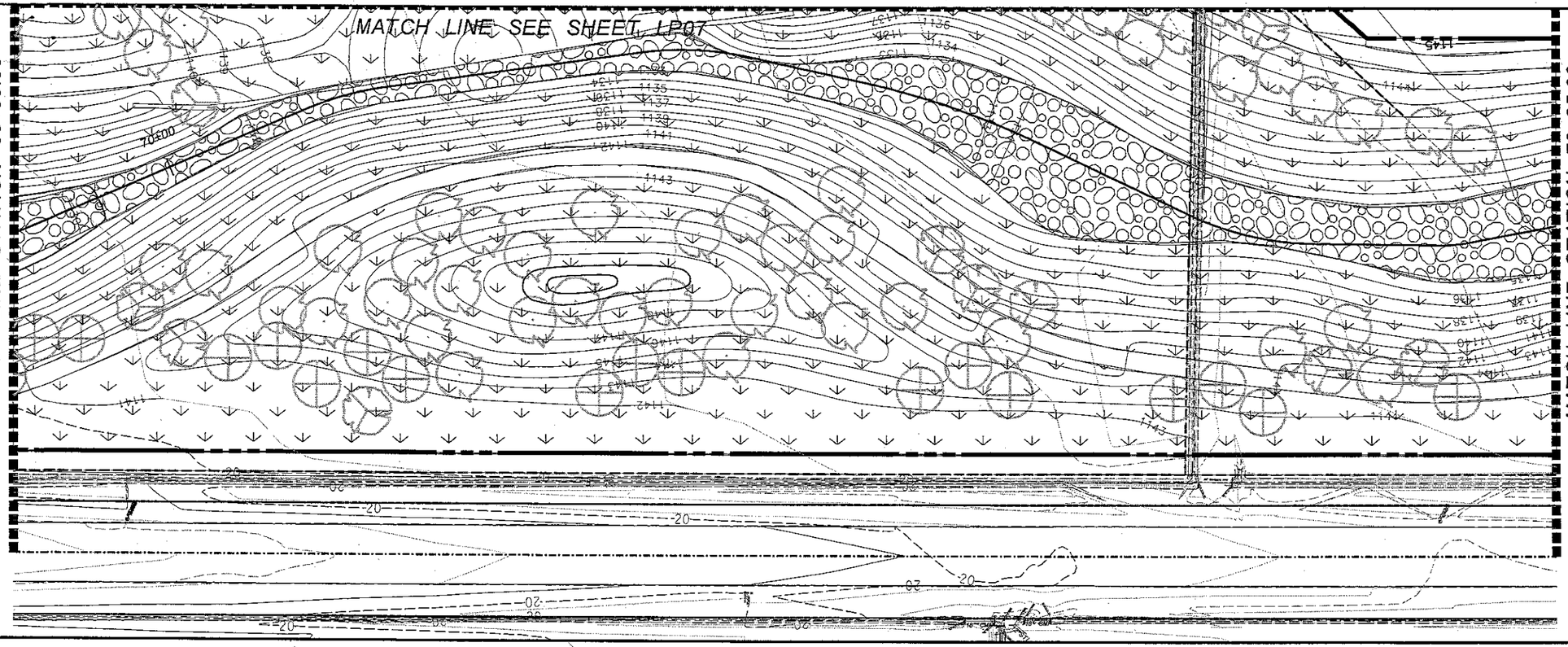

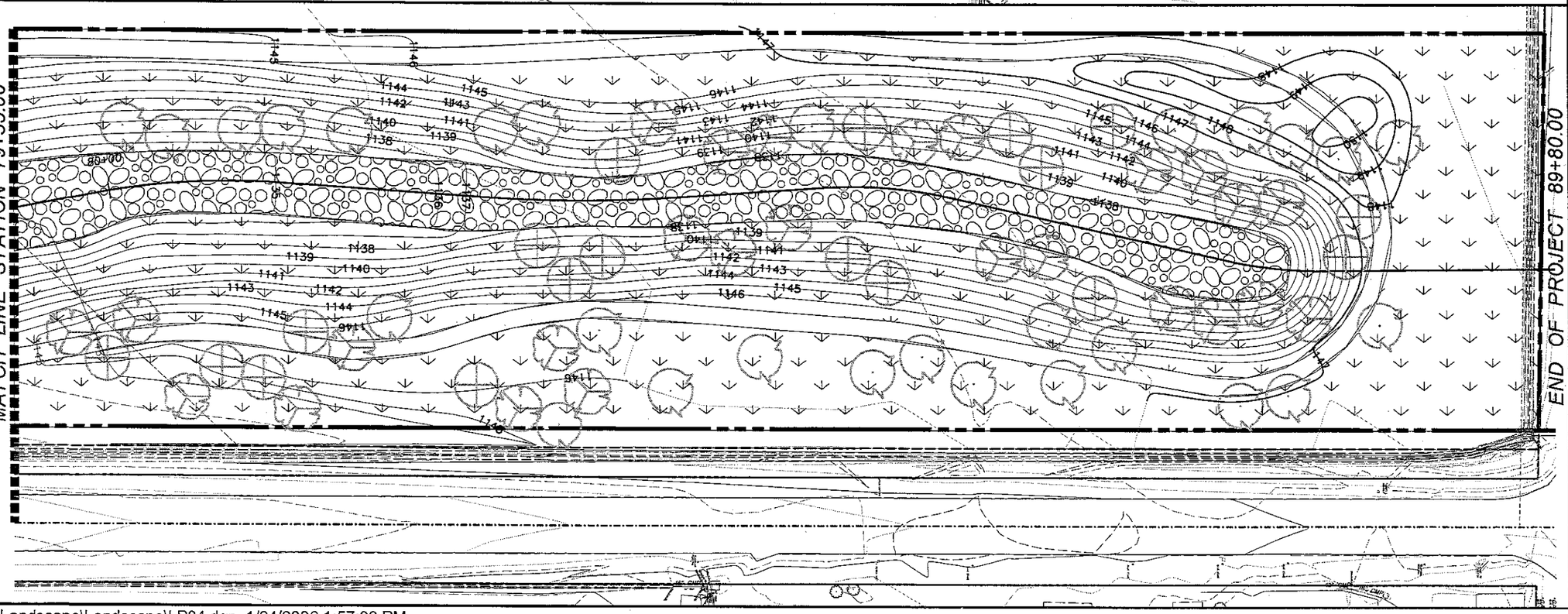

☐ REMOVE ☐

○ CONSTRUCT ○

Tree Planting Not In Contract

SYM.	ABV.	QTY.	
Trees:			
	CF	73	*Blue Palo Verde (NIC) (Cercidium floridum)*
	CM	-	*Foothills Palo Verde (NIC) (Cercidium microphyllum)*
	OT	35	*Ironwood (NIC) (Olneya tesota)*
	PJ	36	*Pink Native Mesquite (NIC) (Prosopis juliflora)*

Notes:

SYMBOL	MATERIAL	QTY (This sht)
	6" MIN.-8" MAX. SCREENED RIVER ROCK	8,290 SQ. YDS.
	SEED MIX FOR SIDE SLOPES & TOPS OF BASIN/ CHANNEL	49,987 SQ. YDS.

20 0 20 40
Scale in Feet

N

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

PRELIMINARY NOT FOR CONSTRUCTION

DRAWING NO. LP04 | LANDSCAPE AND SEEDING | SHEET OF -

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MATCH LINE SEE SHEET LP08

MATCH LINE SEE SHEET LP06

MATCH LINE SEE SHEET LP03

☐ REMOVE ☐

○ CONSTRUCT ○

Tree Planting Not In Contract

SYM.	ABV.	QTY.	
Trees:			
	CF	38	*Blue Palo Verde (NIC) (Cercidium floridum)*
	CM	30	*Foothills Palo Verde (NIC) (Cercidium microphyllum)*
	OT	45	*Ironwood (NIC) (Olneya tesota)*
	PJ	125	*Pink Native Mesquite (NIC) (Prosopis juliflora)*

Notes:

SYMBOL	MATERIAL	QTY (This sht)
	SEED MIX FOR BASIN/CHANNEL BOTTOMS	19,025 SQ. YDS.
	SEED MIX FOR SIDE SLOPES & TOPS OF BASIN/ CHANNEL	63,322 SQ. YDS.

20 0 20 40
Scale in Feet

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60% SUBMITTAL

TWO WORKING DAYS BEFORE YOU DIG-CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

DRAWING NO. LP05 | LANDSCAPE AND SEEDING | SHEET OF -

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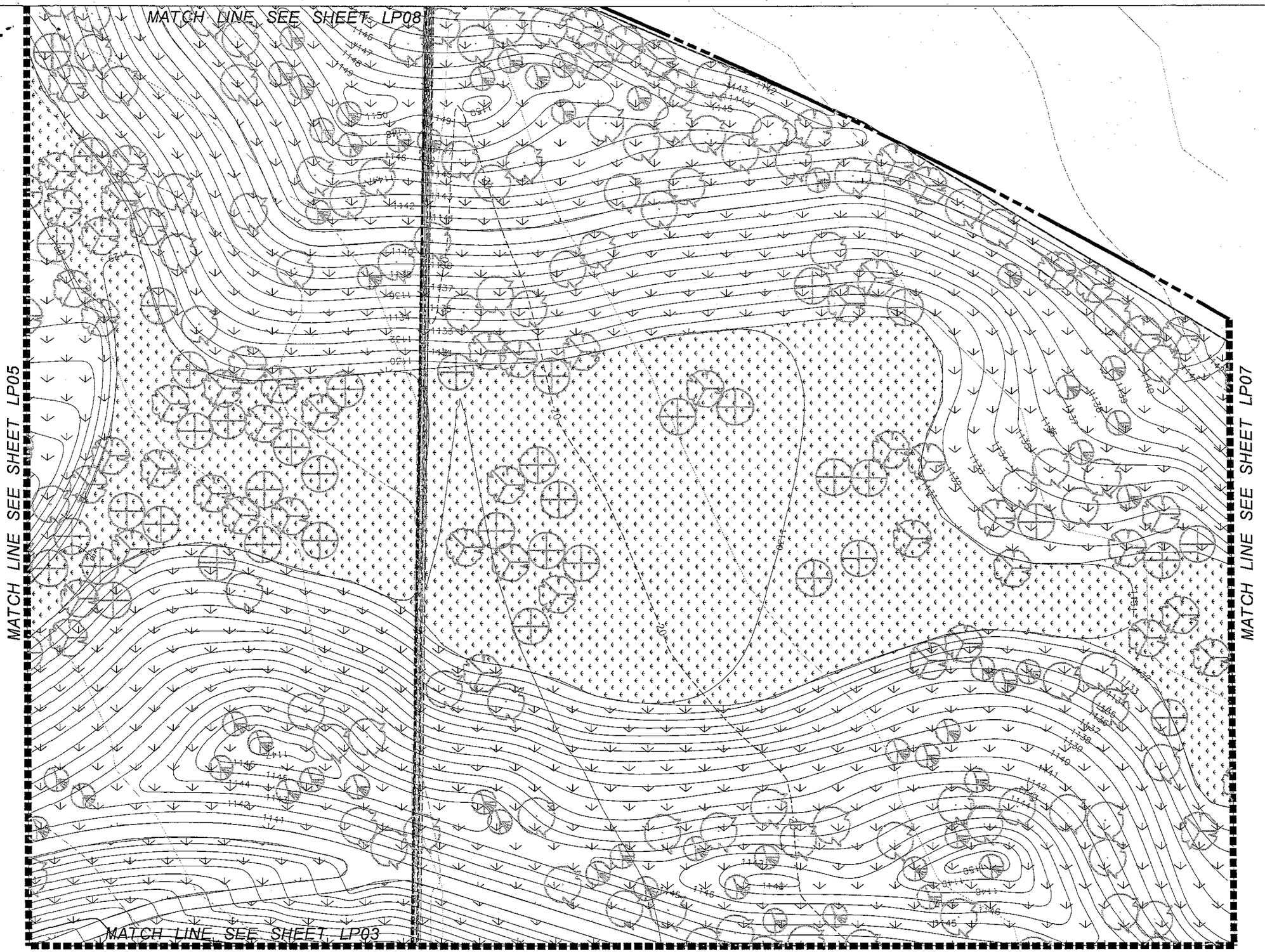

☐ REMOVE ☐

○ CONSTRUCT ○

Tree Planting Not In Contract

SYM.	ABV.	QTY.	
Trees:			
	CF	85	*Blue Palo Verde (NIC) (Cercidium floridum)*
	CM	53	*Foothills Palo Verde (NIC) (Cercidium microphyllum)*
	OT	40	*Ironwood (NIC) (Olneya tesota)*
	PJ	59	*Pink Native Mesquite (NIC) (Prosopis juliflora)*

Notes:

SYMBOL	MATERIAL	QTY (This sht)
	SEED MIX FOR BASIN/CHANNEL BOTTOMS	22,556 SQ. YDS.
	SEED MIX FOR SIDE SLOPES & TOPS OF BASIN/ CHANNEL	53,927 SQ. YDS.

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Scale in Feet

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TWO WORKING DAYS BEFORE YOU DIG-CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

		BY	DATE
PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	SH	6/24
	DRAWN	BSM	6/24
	CHECKED	SH	6/24

DRAWING NO.		SHEET OF
LP06	LANDSCAPE AND SEEDING	-

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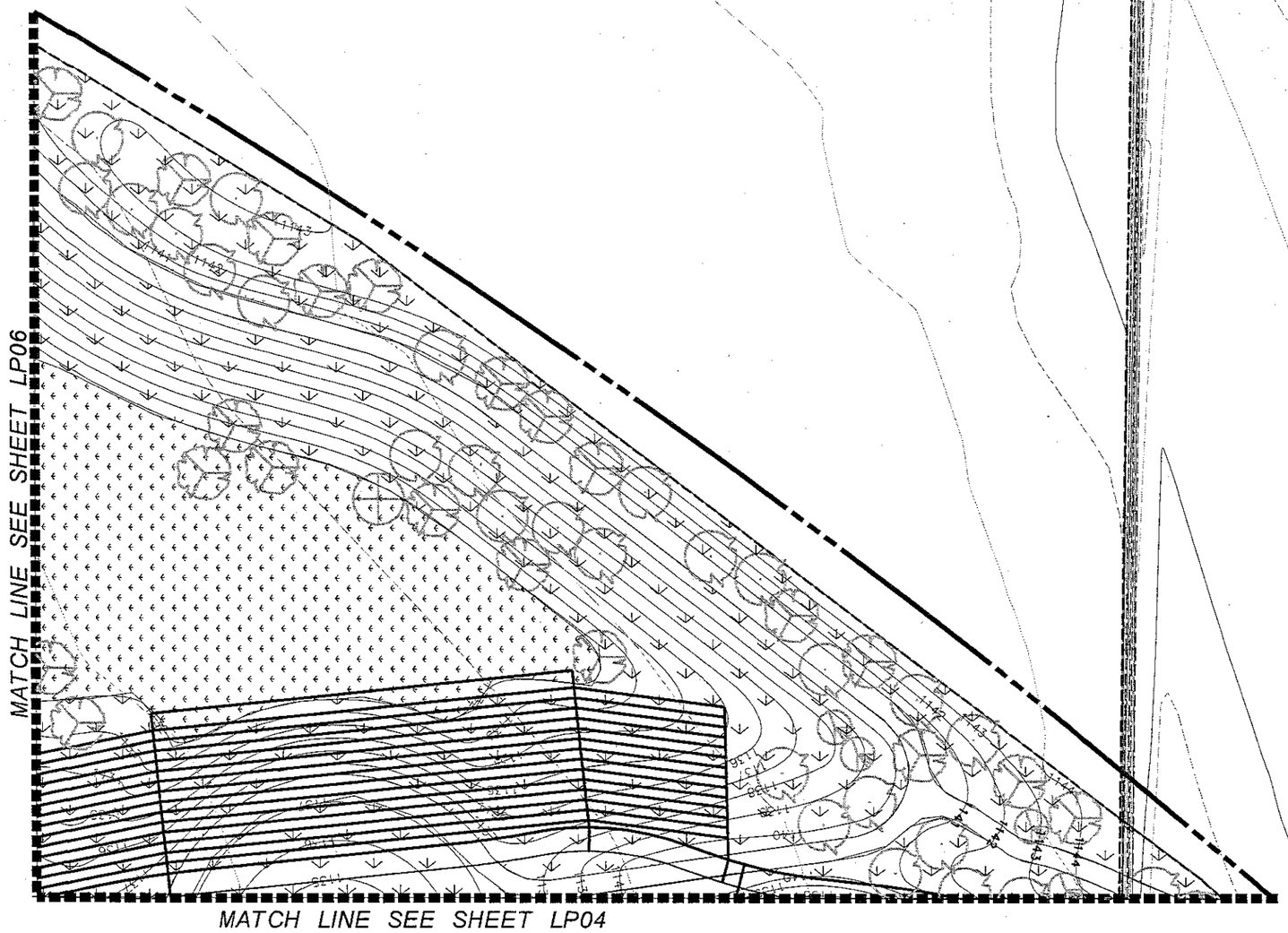

☐ REMOVE ☐

○ CONSTRUCT ○

Tree Planting Not In Contract

SYM.	ABV.	QTY.	
Trees:			
	CF	24	Blue Palo Verde (NIC) (Cercidium floridum)
	CM	4	Foothills Palo Verde (NIC) (Cercidium microphyllum)
	OT	1	Ironwood (NIC) (Olneya tesota)
	PJ	32	Pink Native Mesquite (NIC) (Prosopis juliflora)

Notes:

SYMBOL	MATERIAL	QTY (This sht)
	SEED MIX FOR BASIN/CHANNEL BOTTOMS	4,836 SQ. YDS.
	SEED MIX FOR SIDE SLOPES & TOPS OF BASIN/ CHANNEL	13,647 SQ. YDS.

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Scale in Feet

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TWO WORKING DAYS BEFORE YOU DIG-CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

DRAWING NO. LP07 | LANDSCAPE AND SEEDING | SHEET OF -

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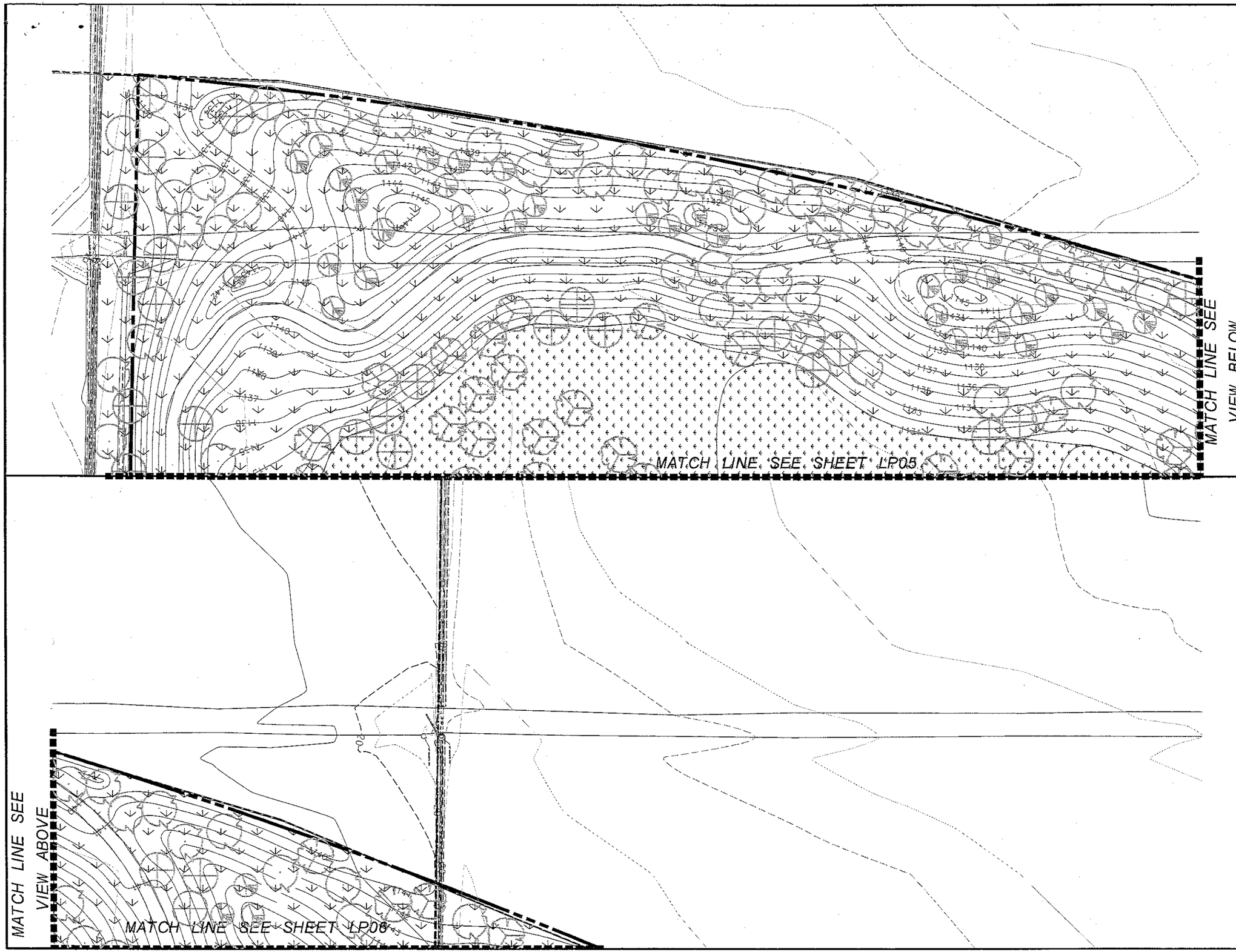

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○ CONSTRUCT ○

Tree Planting Not In Contract

SYM.	ABV.	QTY.	
Trees:			
	CF	55	*Blue Palo Verde (NIC) (Cercidium floridum)*
	CM	38	*Foothills Palo Verde (NIC) (Cercidium microphyllum)*
	OT	27	*Ironwood (NIC) (Olneya tesota)*
	PJ	24	*Pink Native Mesquite (NIC) (Prosopis juliflora)*

Notes:

SYMBOL	MATERIAL	QTY (This sht)
	SEED MIX FOR BASIN/CHANNEL BOTTOMS	6,030 SQ. YDS.
	SEED MIX FOR SIDE SLOPES & TOPS OF BASIN/ CHANNEL	27,138 SQ. YDS.

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Scale in Feet

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TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

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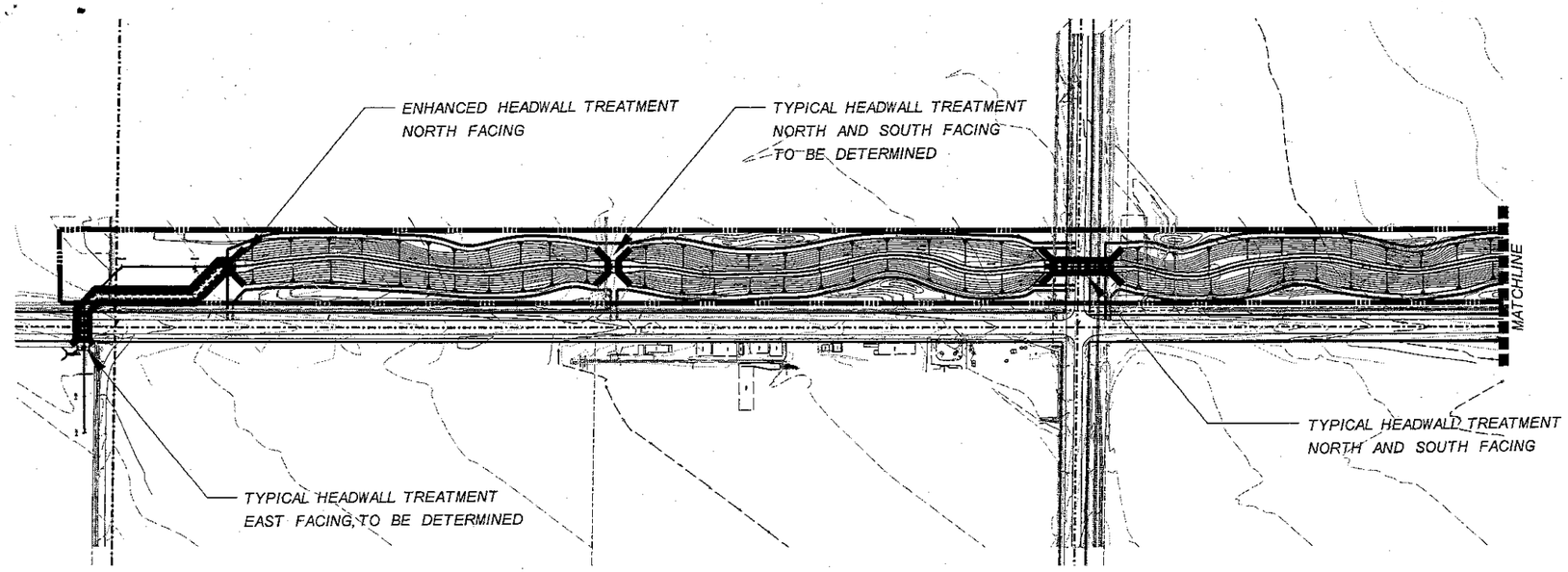

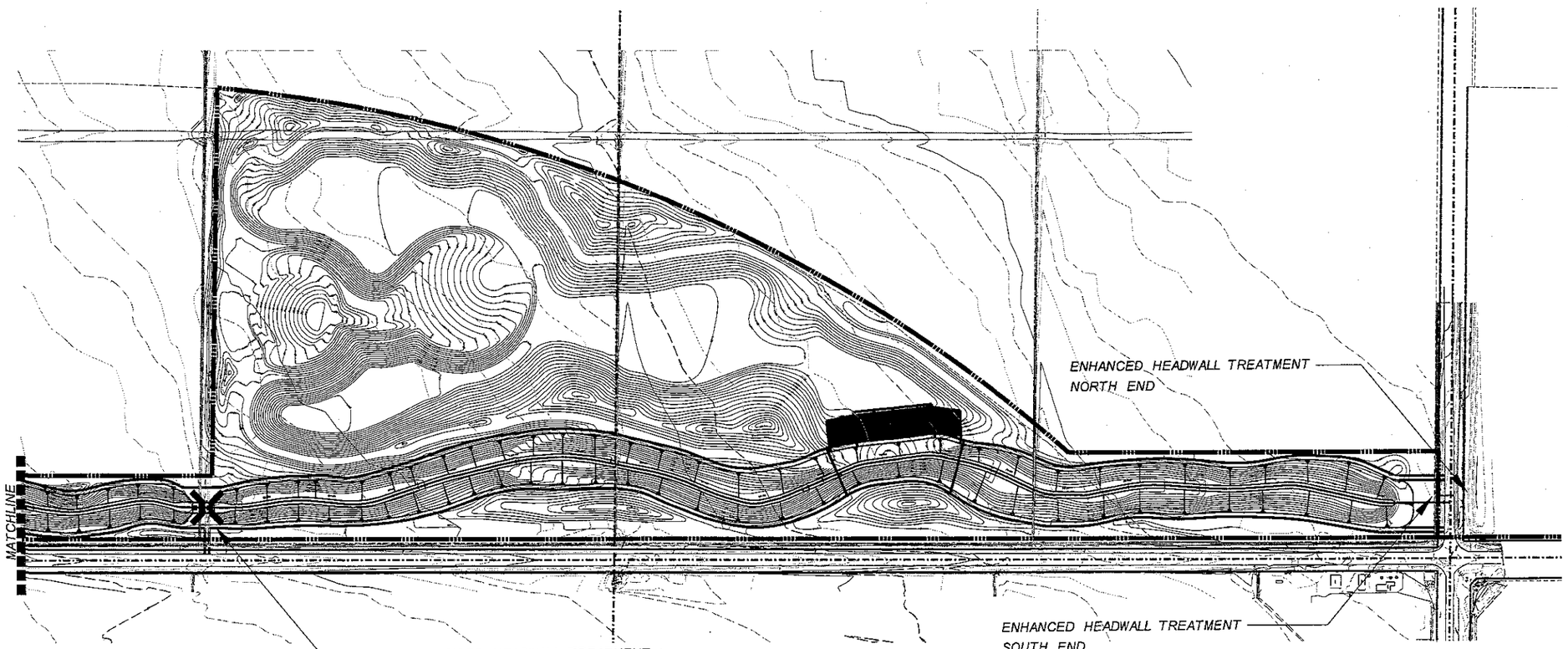

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○ CONSTRUCT ○

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Scale in Feet

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TWO WORKING DAYS BEFORE YOU DIG. CALL 602-263-1100 BLUE STAKE

60% SUBMITTAL

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

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DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

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LANDSCAPE AND SEEDING

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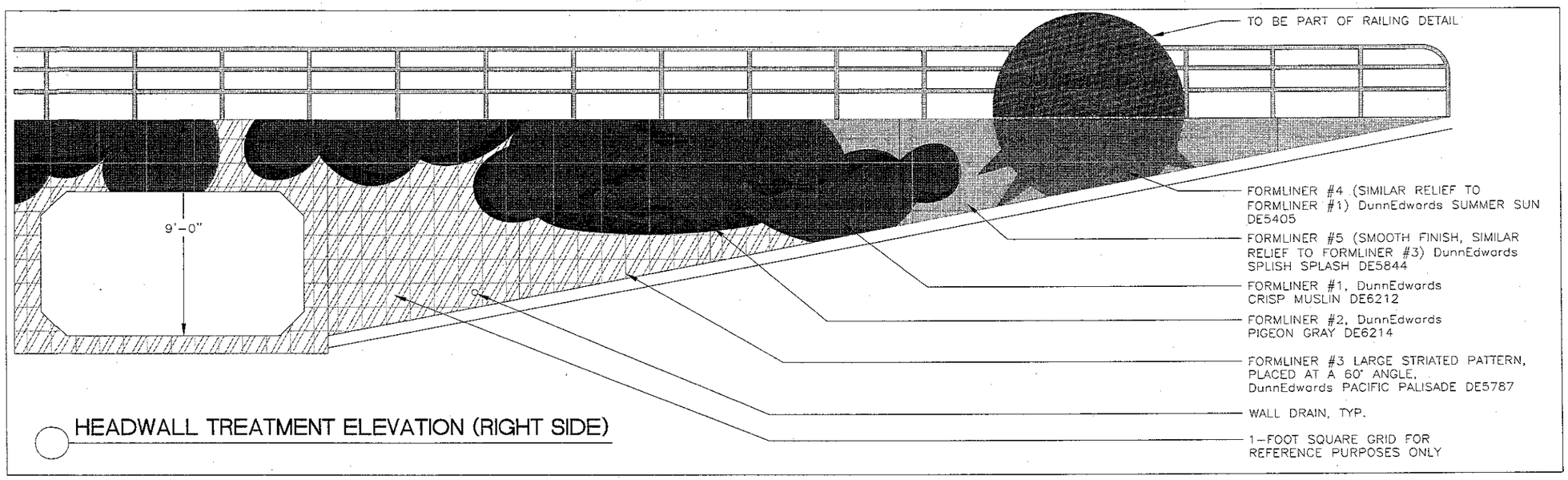
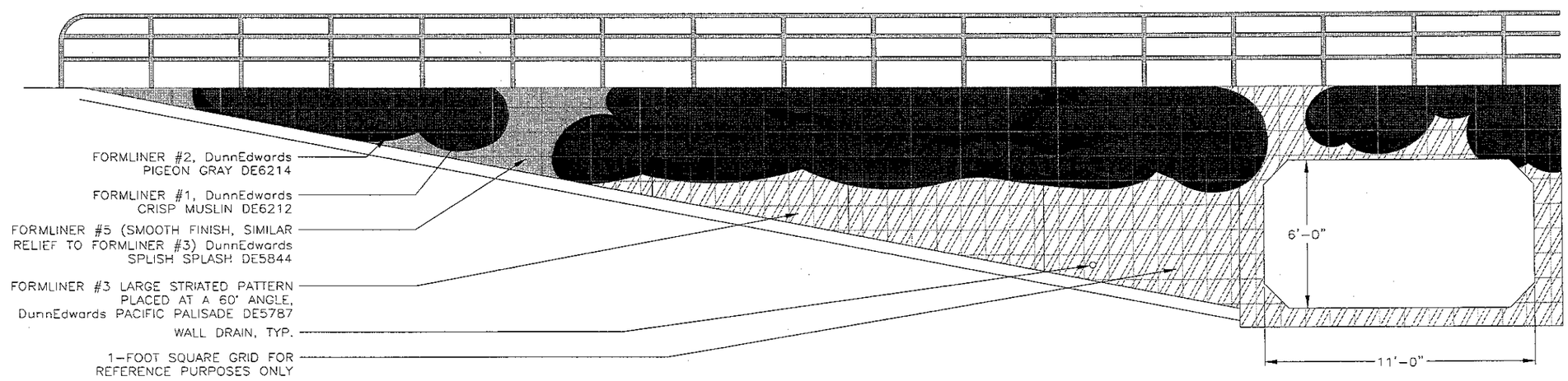


HEADWALL TREATMENT ELEVATION (RIGHT SIDE)



HEADWALL TREATMENT ELEVATION (LEFT SIDE)

☐ REMOVE ☐

◯ CONSTRUCT ◯

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60% SUBMITTAL

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

PRELIMINARY NOT FOR CONSTRUCTION

DRAWING NO. XX01

LANDSCAPE AND SEEDING

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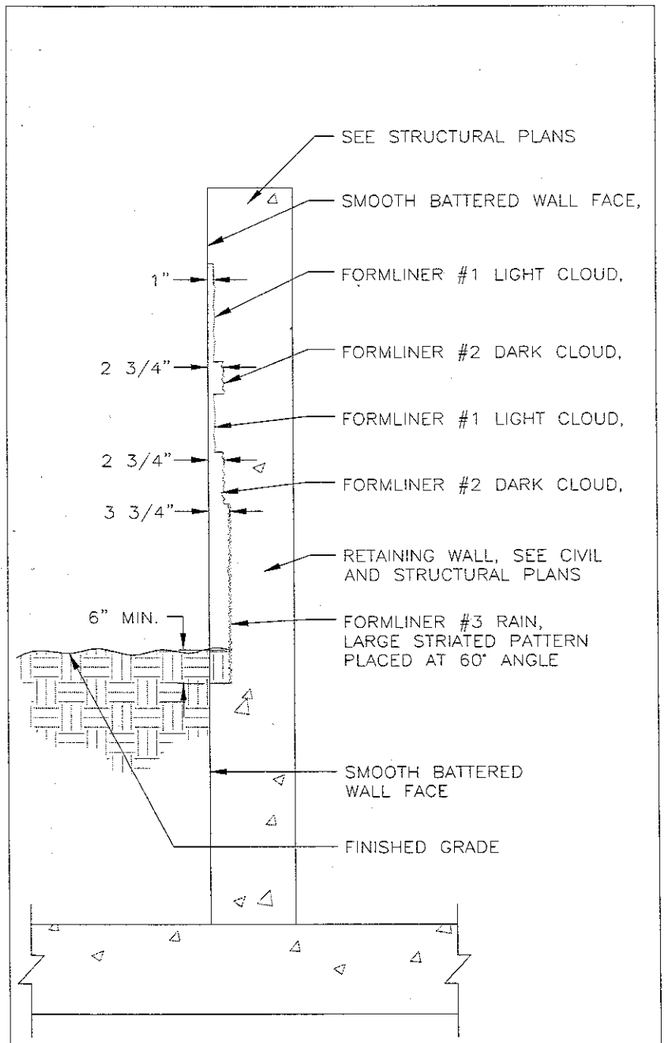
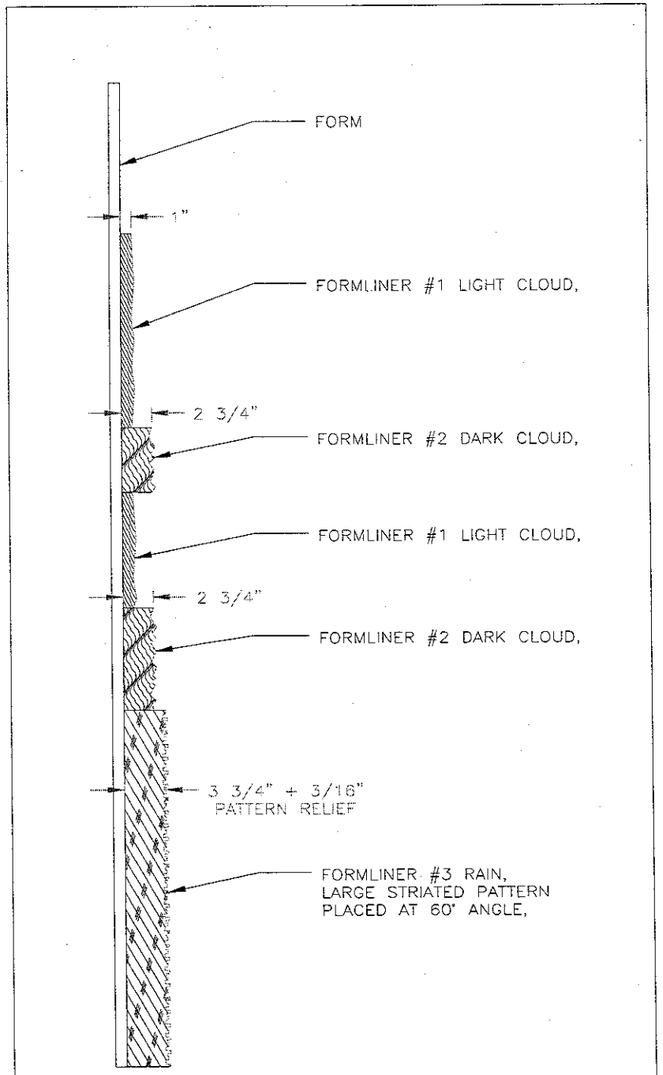


TYPICAL HEADWALL FORM DEPTH SECTION



TYPICAL FORMLINER ATTACHMENT SECTION

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TWO WORKING DAYS BEFORE YOU DIG. CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

REEMS ROAD CHANNEL AND BASIN

FCD PROJECT NO. 470-12-31

PRELIMINARY NOT FOR CONSTRUCTION

	BY	DATE
DESIGNED	SH	6/24
DRAWN	BSM	6/24
CHECKED	SH	6/24

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LANDSCAPE AND SEEDING

SHEET OF -

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REEMS ROAD PROJECT

Scale: 1" = 800' Photo Date: December 2003
Prepared: 26 October 2004